

# GEOLOGIC ECONOMIC RESOURCE MODEL MODULE PSRK

Geologic Economic Resource Model (Ver 8.29.2005)

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The Current UAI AAAAADAT is for

World Level - World Level Resources

Country Level - UNITED STATES OF AMERICA

Region Level - MMS - ALASKA REGION

Basin Level - CHUKCHI SEA SHELF

Play Level - Play 19 - U. Brookian - Sag Phase-North Chukchi Basin

Geologist Kirk W. Sherwood

Remarks 2005 Assessment

Run date Date 16-SEP-05 Time 12:54:08

## USER SUPPLIED PARAMETERS

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RECOVERABLE RESOURCES? > R

## B) Pool Size Distribution

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Z PROB.

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EXPECTATION = 20794.

S.D. = 32465.

MU = 9.2735

SIG.SQ. = 1.3498

Prob. BOE (MBbl) Oil (MBbl) COil(MBbl) Gas (MMcf) SGas(MMcf)

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Mean	%	20794.	7975.6	2674.6	50449.	6560.7
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	773.34	313.51	91.303	1815.1	256.10
TPF	98.00%	1024.9	415.51	121.01	2405.6	339.42
TPF	97.00%	1242.1	503.55	146.65	2915.3	411.33
TPF	96.00%	1423.4	577.04	168.05	3340.7	471.37
TPF	95.00%	1602.7	649.72	189.22	3761.5	530.74
TPF	90.00%	2410.1	977.04	284.54	5656.5	798.12
TPF	85.00%	3169.0	1256.1	384.71	7566.9	1021.6
TPF	80.00%	3925.9	1534.4	484.60	9472.1	1244.5
TPF	75.00%	4748.7	1842.0	593.60	11501.	1498.4
TPF	70.00%	5648.1	2178.1	712.77	13720.	1775.9
TPF	65.00%	6662.4	2567.2	844.09	16171.	2100.1
TPF	60.00%	7753.7	2985.9	985.38	18808.	2448.9
TPF	55.00%	9034.6	3552.6	1120.6	21609.	2902.2
TPF	50.00%	10517.	4208.3	1277.1	24849.	3426.7
TPF	45.00%	12231.	4763.6	1538.2	29424.	3900.0
TPF	40.00%	14328.	5442.5	1857.4	35017.	4478.8
TPF	35.00%	16799.	6382.5	2173.7	41071.	5254.1
TPF	30.00%	19826.	7533.6	2561.0	48486.	6203.7

TPF	25.00%	23787.	9341.2	3025.8	56513.	7663.9
TPF	20.00%	29149.	11789.	3655.3	67383.	9641.0
TPF	15.00%	36552.	14406.	4591.8	86841.	11816.
TPF	10.00%	48185.	18518.	6063.5	0.11742E+06	15234.
TPF	5.00%	72246.	29815.	8947.4	0.16362E+06	24556.
TPF	4.00%	81260.	34047.	10028.	0.18093E+06	28048.
TPF	3.00%	93663.	39870.	11514.	0.20475E+06	32854.
TPF	2.00%	0.11311E+06	49001.	13845.	0.24209E+06	40388.
TPF	1.00%	0.15437E+06	68374.	18790.	0.32133E+06	56375.
TPF	0.10%	0.34293E+06	0.15691E+06	41390.	0.68342E+06	0.12943E+06
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

### C) No.of Pools Distribution

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Lower Support = 0  
Upper Support = 17  
Expectation = 1.05  
Standard Deviation= 2.09

Rank 1 24.63% 51761. 73298.

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)
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Mean	24.63%	51761.	20197.	6492.2	0.12429E+06	16619.
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	2721.2	1091.5	325.61	6439.7	889.74
TPF	98.00%	3925.3	1534.2	484.52	9470.7	1244.3
TPF	97.00%	4917.4	1905.0	615.96	11917.	1550.5
TPF	96.00%	5787.4	2231.6	730.80	14056.	1820.5
TPF	95.00%	6590.0	2539.5	834.71	15996.	2077.0
TPF	90.00%	9975.7	3969.0	1220.0	23666.	3235.3
TPF	85.00%	12966.	5001.5	1650.1	31384.	4102.9
TPF	80.00%	15834.	6015.3	2050.1	38706.	4951.3
TPF	75.00%	18629.	7078.3	2407.8	45553.	5828.1
TPF	70.00%	21518.	8306.1	2759.6	51916.	6827.7
TPF	65.00%	24478.	9656.7	3107.0	57915.	7918.7
TPF	60.00%	27757.	11153.	3491.8	64560.	9127.6
TPF	55.00%	31238.	12527.	3919.6	72874.	10255.
TPF	50.00%	34840.	13800.	4375.2	82340.	11313.
TPF	45.00%	38996.	15270.	4901.0	93264.	12534.
TPF	40.00%	43695.	16931.	5495.4	0.10562E+06	13914.
TPF	35.00%	48026.	18462.	6043.4	0.11700E+06	15187.
TPF	30.00%	56164.	22264.	7019.9	0.13274E+06	18325.
TPF	25.00%	63911.	25901.	7948.3	0.14762E+06	21326.
TPF	20.00%	71166.	29308.	8817.9	0.16155E+06	24137.
TPF	15.00%	83655.	35172.	10315.	0.18553E+06	28976.
TPF	10.00%	0.10399E+06	44719.	12752.	0.22458E+06	36854.
TPF	5.00%	0.14602E+06	64452.	17789.	0.30529E+06	53138.
TPF	4.00%	0.16337E+06	72600.	19869.	0.33861E+06	59862.
TPF	3.00%	0.21426E+06	96494.	25969.	0.43633E+06	79579.
TPF	2.00%	0.26464E+06	0.12015E+06	32006.	0.53307E+06	99096.
TPF	1.00%	0.31451E+06	0.14356E+06	37983.	0.62883E+06	0.11842E+06
TPF	0.10%	0.10515E+07	0.48958E+06	0.12631E+06	0.20440E+07	0.40395E+06
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 2 23.07% 20947. 19150.

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)
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Mean	23.07%	20947.	8045.5	2692.6	50759. 6617.2
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772
TPF 99.00%	1295.3	525.11	152.93	3040.1	428.95
TPF 98.00%	1808.6	733.21	213.53	4244.9	598.94
TPF 97.00%	2248.9	911.71	265.52	5278.3	744.75
TPF 96.00%	2640.2	1061.7	314.91	6235.8	865.88
TPF 95.00%	2994.5	1191.9	361.67	7127.5	970.21
TPF 90.00%	4511.7	1753.4	562.21	10917.	1425.3
TPF 85.00%	5878.1	2266.4	742.54	14275.	1849.5
TPF 80.00%	7186.8	2768.4	911.98	17438.	2267.7
TPF 75.00%	8469.3	3302.5	1060.9	20373.	2702.1
TPF 70.00%	9792.2	3887.8	1200.6	23265.	3170.3
TPF 65.00%	11152.	4413.9	1373.8	26543.	3602.0
TPF 60.00%	12562.	4870.8	1588.6	30307.	3991.5
TPF 55.00%	14097.	5367.8	1822.3	34402.	4415.1
TPF 50.00%	15757.	5986.3	2040.4	38519.	4927.3
TPF 45.00%	17505.	6651.0	2264.0	42801.	5475.7
TPF 40.00%	19410.	7375.5	2507.7	47467.	6073.2
TPF 35.00%	21703.	8390.3	2781.3	52290.	6895.7
TPF 30.00%	24187.	9524.1	3072.9	57325.	7811.6
TPF 25.00%	27396.	10989.	3449.5	63830.	8994.8
TPF 20.00%	31218.	12520.	3917.0	72821.	10249.
TPF 15.00%	35876.	14167.	4506.3	85065.	11617.
TPF 10.00%	43391.	16823.	5457.0	0.10482E+06	13825.
TPF 5.00%	57425.	22856.	7171.0	0.13516E+06	18814.
TPF 4.00%	61978.	24994.	7716.7	0.14390E+06	20578.
TPF 3.00%	67001.	27352.	8318.7	0.15355E+06	22524.
TPF 2.00%	73231.	30277.	9065.4	0.16551E+06	24938.
TPF 1.00%	88865.	37618.	10939.	0.19554E+06	30995.
TPF 0.10%	0.15287E+06	67670.	18611.	0.31845E+06	55793.
TPF 0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 3 19.75% 12256. 10558.

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)
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Mean	19.75%	12256.	4771.6	1542.0	29489. 3906.8
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772
TPF 99.00%	871.98	353.49	102.95	2046.5	288.76
TPF 98.00%	1186.4	480.96	140.07	2784.5	392.88
TPF 97.00%	1433.6	581.19	169.26	3364.8	474.76
TPF 96.00%	1656.9	671.69	195.62	3888.7	548.68
TPF 95.00%	1858.0	753.22	219.36	4360.7	615.28
TPF 90.00%	2771.4	1109.9	332.23	6566.0	904.52
TPF 85.00%	3563.1	1401.0	436.72	8558.9	1137.7
TPF 80.00%	4318.8	1681.3	536.65	10441.	1365.7
TPF 75.00%	5077.9	1965.0	637.22	12313.	1600.0
TPF 70.00%	5851.8	2256.3	739.14	14212.	1841.0
TPF 65.00%	6655.4	2564.6	843.19	16154.	2097.9

TPF	60.00%	7483.2	2882.1	950.36	18155.	2362.5
TPF	55.00%	8375.7	3261.1	1051.1	20168.	2669.0
TPF	50.00%	9331.5	3683.9	1152.0	22258.	3007.3
TPF	45.00%	10373.	4144.6	1261.9	24534.	3375.7
TPF	40.00%	11545.	4541.4	1433.8	27594.	3710.7
TPF	35.00%	12857.	4966.3	1633.5	31094.	4072.8
TPF	30.00%	14346.	5449.3	1859.7	35061.	4484.4
TPF	25.00%	16149.	6135.2	2090.5	39479.	5050.1
TPF	20.00%	18323.	6962.0	2368.7	44804.	5732.2
TPF	15.00%	21144.	8135.4	2715.7	51158.	6689.8
TPF	10.00%	25267.	10017.	3199.6	59515.	8209.8
TPF	5.00%	32629.	13019.	4095.5	76529.	10663.
TPF	4.00%	34875.	13813.	4379.6	82432.	11323.
TPF	3.00%	37949.	14900.	4768.6	90514.	12226.
TPF	2.00%	42808.	16617.	5383.3	0.10328E+06	13654.
TPF	1.00%	50643.	19672.	6358.1	0.12214E+06	16186.
TPF	0.10%	79772.	33349.	9849.4	0.17807E+06	27472.
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 4 15.09% 8353.6 6983.4

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
Mean	15.09%	8353.6	3251.3	1048.7	20120.	2661.2
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	611.72	247.99	72.221	1435.7	202.57
TPF	98.00%	907.81	368.02	107.18	2130.6	300.63
TPF	97.00%	1088.3	441.19	128.49	2554.3	360.40
TPF	96.00%	1249.9	506.69	147.56	2933.4	413.90
TPF	95.00%	1384.9	561.44	163.51	3250.4	458.62
TPF	90.00%	1995.0	808.77	235.54	4682.4	660.66
TPF	85.00%	2554.5	1030.2	303.61	6020.1	840.65
TPF	80.00%	3074.3	1221.3	372.21	7328.5	993.73
TPF	75.00%	3581.3	1407.7	439.12	8604.6	1143.0
TPF	70.00%	4092.4	1596.7	506.66	9882.8	1295.9
TPF	65.00%	4626.8	1796.4	577.46	11201.	1460.8
TPF	60.00%	5195.6	2009.0	652.81	12603.	1636.3
TPF	55.00%	5790.9	2232.9	731.25	14065.	1821.6
TPF	50.00%	6447.1	2484.6	816.21	15650.	2031.3
TPF	45.00%	7144.8	2752.3	906.55	17337.	2254.3
TPF	40.00%	7893.7	3047.8	1000.2	19114.	2498.5
TPF	35.00%	8773.3	3437.0	1093.0	21037.	2809.7
TPF	30.00%	9792.2	3887.8	1200.6	23265.	3170.3
TPF	25.00%	10975.	4356.9	1347.0	26073.	3553.4
TPF	20.00%	12409.	4821.2	1565.3	29899.	3949.2
TPF	15.00%	14321.	5440.4	1856.4	35000.	4477.0
TPF	10.00%	17018.	6465.8	2201.7	41608.	5322.9
TPF	5.00%	21816.	8442.0	2794.6	52520.	6937.5
TPF	4.00%	23314.	9125.6	2970.4	55556.	7489.7
TPF	3.00%	25511.	10128.	3228.2	60008.	8299.6
TPF	2.00%	28435.	11463.	3571.4	65935.	9377.6
TPF	1.00%	33840.	13447.	4248.7	79713.	11019.
TPF	0.10%	53727.	21120.	6727.8	0.12806E+06	17381.
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 5 10.22% 6264.1 5066.5

Prob.	BOE (MBbl)		Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)
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Mean	10.22%	6264.1	2414.5	792.52	15208.	1972.8
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	422.43	171.25	49.873	991.45	139.89	
TPF 98.00%	774.23	313.87	91.407	1817.1	256.39	
TPF 97.00%	900.33	364.99	106.30	2113.1	298.15	
TPF 96.00%	1026.2	416.00	121.15	2408.4	339.82	
TPF 95.00%	1134.9	460.08	133.99	2663.6	375.83	
TPF 90.00%	1604.0	650.25	189.37	3764.6	531.17	
TPF 85.00%	2008.3	814.15	237.10	4713.5	665.06	
TPF 80.00%	2413.8	978.41	285.03	5665.9	799.21	
TPF 75.00%	2797.8	1119.6	335.71	6632.4	912.29	
TPF 70.00%	3185.5	1262.2	386.88	7608.4	1026.5	
TPF 65.00%	3577.5	1406.3	438.61	8595.1	1141.9	
TPF 60.00%	3980.8	1555.0	491.87	9607.4	1261.4	
TPF 55.00%	4424.1	1720.6	550.60	10701.	1398.2	
TPF 50.00%	4891.9	1895.5	612.58	11854.	1542.6	
TPF 45.00%	5407.0	2088.0	680.81	13125.	1701.5	
TPF 40.00%	5981.3	2306.0	755.91	14525.	1882.4	
TPF 35.00%	6617.8	2550.1	838.31	16063.	2085.9	
TPF 30.00%	7343.2	2828.4	932.23	17816.	2317.7	
TPF 25.00%	8196.9	3182.0	1032.2	19777.	2605.7	
TPF 20.00%	9249.0	3647.5	1143.3	22077.	2978.1	
TPF 15.00%	10618.	4241.0	1292.5	25118.	3454.5	
TPF 10.00%	12586.	4878.5	1592.2	30370.	3998.0	
TPF 5.00%	16068.	6104.4	2080.1	39280.	5024.7	
TPF 4.00%	17169.	6523.2	2221.0	41978.	5370.2	
TPF 3.00%	18666.	7092.6	2412.6	45645.	5839.9	
TPF 2.00%	20777.	7967.8	2672.6	50414.	6554.4	
TPF 1.00%	24546.	9687.7	3114.9	58052.	7943.8	
TPF 0.10%	38240.	15002.	4805.3	91277.	12312.	
TPF 0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06	

Rank 6 6.15% 5015.8 3916.8

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	6.15%	5015.8	1941.8	628.99	12160.	1580.8
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	324.07	131.38	38.261	760.60	107.32	
TPF 98.00%	580.15	235.19	68.493	1361.6	192.12	
TPF 97.00%	796.08	322.73	93.987	1868.4	263.63	
TPF 96.00%	888.09	360.03	104.85	2084.4	294.10	
TPF 95.00%	980.40	397.45	115.75	2301.0	324.66	
TPF 90.00%	1364.7	553.25	161.12	3203.0	451.94	
TPF 85.00%	1693.9	686.69	199.98	3975.5	560.93	
TPF 80.00%	2005.2	812.92	236.74	4706.3	664.05	
TPF 75.00%	2324.0	942.15	274.38	5454.5	769.61	
TPF 70.00%	2636.9	1060.4	314.47	6227.3	864.90	
TPF 65.00%	2953.8	1177.0	356.30	7025.1	958.23	

TPF	60.00%	3281.2	1297.4	399.51	7849.3	1054.7
TPF	55.00%	3620.7	1422.2	444.32	8703.8	1154.6
TPF	50.00%	3979.4	1554.4	491.68	9603.9	1261.0
TPF	45.00%	4384.1	1705.7	545.30	10602.	1385.9
TPF	40.00%	4818.5	1868.1	602.85	11673.	1519.9
TPF	35.00%	5319.1	2055.2	669.18	12908.	1674.4
TPF	30.00%	5888.0	2270.2	743.83	14299.	1852.6
TPF	25.00%	6560.3	2528.1	830.87	15924.	2067.5
TPF	20.00%	7367.7	2837.8	935.40	17875.	2325.5
TPF	15.00%	8418.5	3280.0	1055.6	20262.	2684.2
TPF	10.00%	9931.1	3949.3	1215.3	23569.	3219.5
TPF	5.00%	12555.	4868.5	1587.5	30288.	3989.5
TPF	4.00%	13462.	5162.0	1725.5	32706.	4239.7
TPF	3.00%	14586.	5540.6	1890.4	35649.	4559.7
TPF	2.00%	16221.	6162.7	2099.7	39656.	5072.9
TPF	1.00%	19052.	7239.3	2461.9	46590.	5960.9
TPF	0.10%	29357.	11862.	3681.6	67930.	9702.1
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 7 3.32% 4207.7 3174.1

	Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)
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Mean	3.32%	4207.7	1639.8	521.93	10167.	1331.5
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	266.14	107.89	31.421	624.63	88.134
TPF	98.00%	464.51	188.31	54.841	1090.2	153.82
TPF	97.00%	663.90	269.14	78.381	1558.2	219.85
TPF	96.00%	805.83	326.68	95.139	1891.3	266.86
TPF	95.00%	877.78	355.85	103.63	2060.2	290.68
TPF	90.00%	1213.6	491.97	143.28	2848.2	401.87
TPF	85.00%	1488.7	603.52	175.76	3494.1	493.00
TPF	80.00%	1749.2	709.12	206.52	4105.4	579.26
TPF	75.00%	2006.9	813.59	236.94	4710.2	664.60
TPF	70.00%	2274.2	921.95	268.50	5337.6	753.12
TPF	65.00%	2543.9	1026.2	302.20	5993.2	837.51
TPF	60.00%	2817.1	1126.7	338.25	6681.0	917.97
TPF	55.00%	3103.8	1232.1	376.10	7402.8	1002.4
TPF	50.00%	3405.8	1343.2	415.95	8162.8	1091.3
TPF	45.00%	3726.3	1461.0	458.25	8969.6	1185.7
TPF	40.00%	4082.0	1592.8	505.27	9857.0	1292.7
TPF	35.00%	4485.4	1743.6	558.72	10852.	1417.2
TPF	30.00%	4944.1	1915.0	619.49	11983.	1558.7
TPF	25.00%	5483.0	2116.4	690.89	13312.	1725.0
TPF	20.00%	6156.6	2373.2	778.60	14948.	1938.5
TPF	15.00%	7005.9	2699.0	888.57	17001.	2209.9
TPF	10.00%	8197.9	3182.4	1032.3	19779.	2606.1
TPF	5.00%	10306.	4115.2	1254.9	24389.	3352.2
TPF	4.00%	11010.	4368.2	1352.3	26166.	3563.0
TPF	3.00%	11901.	4656.7	1488.0	28543.	3809.0
TPF	2.00%	13238.	5089.7	1691.5	32110.	4178.0
TPF	1.00%	15543.	5904.9	2013.0	37995.	4860.2
TPF	0.10%	23586.	9249.8	3002.3	56107.	7590.0
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 8 1.62% 3651.4 2666.8

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	1.62%	3651.4	1433.5	448.37	8781.1	1163.7
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	228.85	92.774	27.019	537.11	75.785	
TPF 98.00%	389.94	158.08	46.037	915.19	129.13	
TPF 97.00%	552.05	223.80	65.176	1295.7	182.81	
TPF 96.00%	715.20	289.94	84.439	1678.6	236.84	
TPF 95.00%	811.22	328.87	95.775	1903.9	268.64	
TPF 90.00%	1098.7	445.40	129.71	2578.6	363.83	
TPF 85.00%	1345.6	545.50	158.87	3158.1	445.60	
TPF 80.00%	1575.6	638.76	186.02	3698.0	521.78	
TPF 75.00%	1793.2	726.95	211.71	4208.6	593.82	
TPF 70.00%	2017.5	817.89	238.19	4735.1	668.11	
TPF 65.00%	2252.6	913.17	265.94	5286.8	745.94	
TPF 60.00%	2494.4	1008.1	295.67	5868.8	822.96	
TPF 55.00%	2740.1	1098.4	328.10	6487.3	895.31	
TPF 50.00%	3001.3	1194.5	362.57	7144.8	972.23	
TPF 45.00%	3280.6	1297.1	399.43	7847.7	1054.5	
TPF 40.00%	3581.5	1407.8	439.15	8605.2	1143.1	
TPF 35.00%	3909.7	1528.5	482.47	9431.4	1239.8	
TPF 30.00%	4302.9	1675.3	534.54	10402.	1360.8	
TPF 25.00%	4747.2	1841.4	593.40	11498.	1497.9	
TPF 20.00%	5308.5	2051.2	667.77	12882.	1671.1	
TPF 15.00%	6026.7	2323.4	761.78	14634.	1896.9	
TPF 10.00%	7033.9	2709.8	892.19	17069.	2218.9	
TPF 5.00%	8761.3	3431.7	1091.8	21011.	2805.5	
TPF 4.00%	9338.0	3686.8	1152.7	22272.	3009.6	
TPF 3.00%	10093.	4020.7	1232.3	23922.	3276.6	
TPF 2.00%	11168.	4419.2	1376.3	26586.	3606.4	
TPF 1.00%	13061.	5032.2	1664.5	31637.	4129.0	
TPF 0.10%	19659.	7470.1	2539.6	48076.	6151.2	
TPF 0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06	

Rank 9 0.73% 3249.3 2304.4

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.73%	3249.3	1285.6	395.30	7769.0	1045.3
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	203.24	82.392	23.995	477.00	67.304	
TPF 98.00%	338.66	137.29	39.983	794.84	112.15	
TPF 97.00%	475.05	192.58	56.086	1115.0	157.32	
TPF 96.00%	612.43	248.27	72.305	1437.4	202.81	
TPF 95.00%	750.80	304.37	88.642	1762.1	248.63	
TPF 90.00%	1018.0	412.69	120.19	2389.2	337.11	
TPF 85.00%	1245.1	504.77	147.00	2922.4	412.33	
TPF 80.00%	1442.3	584.70	170.28	3385.1	477.62	
TPF 75.00%	1642.0	665.66	193.86	3853.8	543.76	
TPF 70.00%	1834.7	743.80	216.62	4306.2	607.59	
TPF 65.00%	2037.6	826.04	240.57	4782.3	674.77	

TPF	60.00%	2252.1	912.98	265.89	5285.7	745.79
TPF	55.00%	2475.7	1001.2	293.20	5821.7	817.44
TPF	50.00%	2704.6	1085.3	323.41	6397.7	884.83
TPF	45.00%	2950.8	1175.9	355.91	7017.7	957.36
TPF	40.00%	3218.1	1274.2	391.18	7690.4	1036.1
TPF	35.00%	3510.8	1381.8	429.81	8427.1	1122.3
TPF	30.00%	3836.6	1501.6	472.81	9247.2	1218.2
TPF	25.00%	4230.6	1648.3	524.97	10224.	1338.5
TPF	20.00%	4699.1	1823.4	587.03	11379.	1483.1
TPF	15.00%	5316.4	2054.2	668.82	12901.	1673.6
TPF	10.00%	6188.4	2385.4	782.72	15025.	1948.6
TPF	5.00%	7648.3	2945.4	971.73	18553.	2415.2
TPF	4.00%	8144.0	3158.6	1026.6	19662.	2587.0
TPF	3.00%	8774.1	3437.4	1093.1	21039.	2810.0
TPF	2.00%	9694.3	3844.5	1190.3	23051.	3135.7
TPF	1.00%	11282.	4456.2	1393.7	26891.	3638.0
TPF	0.10%	16882.	6414.0	2184.3	41274.	5280.1
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 10 0.30% 2947.1 2035.5

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.30%	2947.1	1174.5	355.41	7008.1	956.25
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	184.77	74.905	21.815	433.66	61.188
TPF	98.00%	301.66	122.29	35.615	708.00	99.896
TPF	97.00%	419.44	170.04	49.520	984.44	138.90
TPF	96.00%	538.14	218.16	63.534	1263.0	178.21
TPF	95.00%	657.77	266.66	77.658	1543.8	217.82
TPF	90.00%	950.89	385.49	112.26	2231.8	314.89
TPF	85.00%	1158.0	469.44	136.71	2717.8	383.47
TPF	80.00%	1343.8	544.75	158.65	3153.8	444.99
TPF	75.00%	1522.9	617.37	179.80	3574.2	504.31
TPF	70.00%	1699.7	689.05	200.67	3989.2	562.86
TPF	65.00%	1878.0	761.35	221.73	4407.8	621.92
TPF	60.00%	2067.2	838.04	244.06	4851.8	684.57
TPF	55.00%	2268.9	919.79	267.87	5325.1	751.35
TPF	50.00%	2480.7	1003.0	293.86	5834.3	818.91
TPF	45.00%	2700.4	1083.8	322.86	6387.3	883.61
TPF	40.00%	2940.0	1171.9	354.48	6990.3	954.16
TPF	35.00%	3204.0	1269.0	389.33	7655.0	1031.9
TPF	30.00%	3498.8	1377.4	428.23	8397.0	1118.7
TPF	25.00%	3835.1	1501.1	472.62	9243.6	1217.8
TPF	20.00%	4256.1	1657.9	528.34	10286.	1346.4
TPF	15.00%	4783.9	1855.1	598.28	11588.	1509.3
TPF	10.00%	5539.0	2137.4	698.31	13450.	1742.3
TPF	5.00%	6850.0	2639.2	868.38	16624.	2160.1
TPF	4.00%	7267.4	2799.4	922.42	17633.	2293.5
TPF	3.00%	7786.6	3000.5	988.86	18880.	2460.6
TPF	2.00%	8587.7	3354.9	1073.4	20632.	2744.1
TPF	1.00%	9962.4	3963.1	1218.6	23637.	3230.5
TPF	0.10%	14812.	5626.6	1919.4	36203.	4630.6
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06



Rank 11 0.12% 2711.9 1828.4

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.12%	2711.9	1088.0	324.37	6416.2	886.99
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	170.93	69.295	20.181	401.18	56.605	
TPF 98.00%	273.91	111.04	32.339	642.88	90.708	
TPF 97.00%	377.72	153.13	44.595	886.52	125.08	
TPF 96.00%	482.38	195.55	56.951	1132.2	159.74	
TPF 95.00%	587.90	238.33	69.409	1379.8	194.69	
TPF 90.00%	900.35	365.00	106.30	2113.1	298.16	
TPF 85.00%	1091.7	442.56	128.89	2562.2	361.51	
TPF 80.00%	1268.9	514.42	149.81	2978.2	420.21	
TPF 75.00%	1429.0	579.31	168.71	3353.9	473.22	
TPF 70.00%	1596.0	647.01	188.43	3745.8	528.52	
TPF 65.00%	1755.9	711.82	207.30	4121.0	581.46	
TPF 60.00%	1925.1	780.44	227.29	4518.3	637.52	
TPF 55.00%	2106.1	853.80	248.65	4943.0	697.44	
TPF 50.00%	2300.7	932.70	271.63	5399.8	761.89	
TPF 45.00%	2505.5	1012.1	297.14	5896.8	826.22	
TPF 40.00%	2722.4	1091.9	325.76	6442.6	890.08	
TPF 35.00%	2962.3	1180.1	357.42	7046.5	960.74	
TPF 30.00%	3231.6	1279.1	392.97	7724.4	1040.0	
TPF 25.00%	3539.5	1392.4	433.61	8499.6	1130.7	
TPF 20.00%	3902.5	1525.8	481.51	9413.2	1237.6	
TPF 15.00%	4386.1	1706.4	545.57	10607.	1386.5	
TPF 10.00%	5055.9	1956.8	634.31	12259.	1593.2	
TPF 5.00%	6215.1	2395.7	786.18	15090.	1957.2	
TPF 4.00%	6583.3	2536.9	833.84	15980.	2074.8	
TPF 3.00%	7067.2	2722.6	896.50	17149.	2229.5	
TPF 2.00%	7720.9	2973.3	981.14	18729.	2438.4	
TPF 1.00%	8920.6	3502.2	1108.6	21359.	2861.9	
TPF 0.10%	13150.	5061.0	1678.1	31874.	4153.6	
TPF 0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06	

Rank 12 0.04% 2522.1 1662.0

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.04%	2522.1	1018.2	299.32	5938.4	831.10
TPF 100.00%	68.767	27.878	8.1188	161.40	22.772	
TPF 99.00%	160.19	64.941	18.913	375.98	53.049	
TPF 98.00%	252.37	102.31	29.796	592.32	83.575	
TPF 97.00%	345.32	139.99	40.770	810.48	114.36	
TPF 96.00%	439.05	177.99	51.836	1030.5	145.39	
TPF 95.00%	533.58	216.31	62.996	1252.3	176.70	
TPF 90.00%	860.98	349.04	101.65	2020.7	285.12	
TPF 85.00%	1039.9	421.56	122.77	2440.6	344.36	
TPF 80.00%	1204.1	488.12	142.15	2825.9	398.73	
TPF 75.00%	1354.6	549.13	159.92	3179.2	448.57	
TPF 70.00%	1506.0	610.51	177.80	3534.5	498.71	
TPF 65.00%	1659.4	672.72	195.92	3894.7	549.53	

TPF	60.00%	1812.7	734.84	214.01	4254.3	600.27
TPF	55.00%	1976.7	801.36	233.38	4639.5	654.61
TPF	50.00%	2153.6	873.06	254.26	5054.5	713.18
TPF	45.00%	2345.7	950.92	276.94	5505.3	776.78
TPF	40.00%	2547.5	1027.6	302.67	6002.3	838.57
TPF	35.00%	2767.0	1108.3	331.65	6554.9	903.22
TPF	30.00%	3014.2	1199.2	364.28	7177.2	976.03
TPF	25.00%	3298.0	1303.6	401.73	7891.6	1059.6
TPF	20.00%	3633.2	1426.8	445.97	8735.4	1158.3
TPF	15.00%	4058.1	1583.8	502.11	9798.0	1285.3
TPF	10.00%	4658.0	1808.1	581.59	11278.	1470.4
TPF	5.00%	5681.7	2191.0	717.11	13801.	1786.7
TPF	4.00%	6029.5	2324.4	762.14	14641.	1897.8
TPF	3.00%	6461.1	2490.0	818.02	15684.	2035.8
TPF	2.00%	7067.9	2722.8	896.59	17151.	2229.7
TPF	1.00%	8103.3	3140.6	1022.3	19573.	2572.6
TPF	0.10%	11774.	4615.3	1468.5	28202.	3773.7
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 13 0.02% 2361.1 1520.2

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.02%	2361.1	957.16	278.75	5541.4	781.88
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	151.51	61.420	17.887	355.59	50.172
TPF	98.00%	234.95	95.246	27.738	551.42	77.804
TPF	97.00%	319.10	129.36	37.673	748.92	105.67
TPF	96.00%	403.97	163.77	47.694	948.12	133.78
TPF	95.00%	489.58	198.47	57.801	1149.1	162.13
TPF	90.00%	829.01	336.08	97.875	1945.7	274.53
TPF	85.00%	993.44	402.74	117.29	2331.6	328.98
TPF	80.00%	1146.8	464.91	135.40	2691.6	379.77
TPF	75.00%	1293.6	524.44	152.73	3036.2	428.40
TPF	70.00%	1432.1	580.58	169.08	3361.3	474.26
TPF	65.00%	1577.6	639.56	186.26	3702.7	522.44
TPF	60.00%	1719.9	697.22	203.05	4036.6	569.54
TPF	55.00%	1869.7	757.97	220.74	4388.2	619.16
TPF	50.00%	2031.4	823.52	239.83	4767.7	672.71
TPF	45.00%	2207.2	894.81	260.59	5180.4	730.94
TPF	40.00%	2400.3	973.07	283.39	5633.5	794.87
TPF	35.00%	2602.5	1047.8	309.93	6140.8	854.77
TPF	30.00%	2829.9	1131.4	339.95	6713.3	921.75
TPF	25.00%	3091.8	1227.7	374.51	7372.5	998.87
TPF	20.00%	3401.6	1341.6	415.40	8152.4	1090.1
TPF	15.00%	3785.3	1482.7	466.04	9118.1	1203.1
TPF	10.00%	4330.5	1685.7	538.21	10470.	1369.4
TPF	5.00%	5252.4	2030.2	660.34	12744.	1653.8
TPF	4.00%	5542.0	2138.5	698.70	13458.	1743.2
TPF	3.00%	5934.7	2288.1	749.87	14412.	1867.5
TPF	2.00%	6480.8	2497.6	820.58	15732.	2042.1
TPF	1.00%	7401.6	2850.8	939.80	17957.	2336.4
TPF	0.10%	10605.	4236.8	1290.5	25084.	3451.0
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 14 0.01% 2212.8 1389.1

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
-----	-----	-----	-----	-----	-----	
Mean	0.01%	2212.8	897.04	261.24	5193.4	732.76
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	143.99	58.375	17.000	337.96	47.685
TPF	98.00%	219.86	89.131	25.958	516.02	72.809
TPF	97.00%	296.39	120.15	34.992	695.62	98.150
TPF	96.00%	373.57	151.45	44.105	876.78	123.71
TPF	95.00%	451.44	183.01	53.298	1059.5	149.50
TPF	90.00%	801.23	324.81	94.595	1880.5	265.33
TPF	85.00%	950.89	385.49	112.27	2231.8	314.89
TPF	80.00%	1096.8	444.62	129.49	2574.1	363.20
TPF	75.00%	1239.8	502.62	146.38	2909.9	410.58
TPF	70.00%	1366.5	553.98	161.34	3207.3	452.53
TPF	65.00%	1499.8	608.02	177.07	3520.1	496.67
TPF	60.00%	1637.5	663.84	193.33	3843.3	542.27
TPF	55.00%	1774.3	719.28	209.48	4164.3	587.56
TPF	50.00%	1921.9	779.14	226.91	4510.8	636.46
TPF	45.00%	2082.6	844.26	245.87	4887.8	689.65
TPF	40.00%	2259.0	915.80	266.71	5302.0	748.09
TPF	35.00%	2452.5	992.62	290.13	5763.2	810.59
TPF	30.00%	2660.6	1069.2	317.60	6287.1	871.89
TPF	25.00%	2900.5	1157.4	349.26	6890.9	942.53
TPF	20.00%	3185.1	1262.0	386.83	7607.4	1026.4
TPF	15.00%	3537.5	1391.6	433.33	8494.3	1130.1
TPF	10.00%	4017.0	1568.5	496.67	9696.8	1272.6
TPF	5.00%	4837.9	1875.3	605.42	11721.	1525.9
TPF	4.00%	5107.1	1975.9	641.08	12385.	1609.0
TPF	3.00%	5442.9	2101.4	685.57	13213.	1712.6
TPF	2.00%	5927.8	2285.4	748.98	14395.	1865.3
TPF	1.00%	6752.1	2601.7	855.71	16388.	2128.8
TPF	0.10%	9562.6	3786.2	1176.4	22763.	3089.1
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 15 0.00% 2057.3 1255.3

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.00%	2057.3	834.01	242.89	4828.5	681.28
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	136.58	55.371	16.126	320.57	45.231
TPF	98.00%	204.98	83.096	24.200	481.08	67.879
TPF	97.00%	273.95	111.06	32.344	642.97	90.721
TPF	96.00%	343.52	139.26	40.557	806.26	113.76
TPF	95.00%	413.70	167.71	48.843	970.96	137.00
TPF	90.00%	773.62	313.62	91.335	1815.7	256.19
TPF	85.00%	908.42	368.27	107.25	2132.1	300.83
TPF	80.00%	1046.6	424.27	123.56	2456.3	346.57
TPF	75.00%	1175.3	476.45	138.76	2758.4	389.20
TPF	70.00%	1299.9	526.98	153.47	3050.9	430.48
TPF	65.00%	1420.5	575.87	167.71	3333.9	470.41

TPF	60.00%	1547.7	627.43	182.73	3632.5	512.53
TPF	55.00%	1676.0	679.43	197.87	3933.5	555.00
TPF	50.00%	1808.5	733.15	213.52	4244.6	598.89
TPF	45.00%	1952.6	791.59	230.53	4582.9	646.63
TPF	40.00%	2111.0	855.77	249.23	4954.5	699.06
TPF	35.00%	2286.9	927.12	270.00	5367.5	757.33
TPF	30.00%	2481.1	1003.2	293.92	5835.4	819.04
TPF	25.00%	2696.6	1082.4	322.35	6377.7	882.49
TPF	20.00%	2952.6	1176.5	356.15	7022.2	957.89
TPF	15.00%	3270.8	1293.5	398.14	7823.1	1051.6
TPF	10.00%	3698.2	1450.7	454.54	8898.8	1177.4
TPF	5.00%	4419.6	1719.0	550.00	10690.	1396.8
TPF	4.00%	4645.5	1803.4	579.93	11247.	1466.6
TPF	3.00%	4945.2	1915.4	619.64	11986.	1559.0
TPF	2.00%	5364.8	2072.3	675.23	13021.	1688.5
TPF	1.00%	6092.1	2348.5	770.26	14793.	1917.9
TPF	0.10%	8526.7	3327.9	1067.0	20498.	2722.5
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 16 0.00% 1864.6 1107.4

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.00%	1864.6	755.90	220.14	4376.2	617.47
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	127.21	51.572	15.019	298.57	42.128
TPF	98.00%	186.13	75.455	21.975	436.84	61.637
TPF	97.00%	245.52	99.532	28.987	576.24	81.305
TPF	96.00%	305.40	123.81	36.056	716.77	101.13
TPF	95.00%	365.77	148.28	43.184	858.47	121.13
TPF	90.00%	675.46	273.83	79.746	1585.3	223.68
TPF	85.00%	854.01	346.21	100.83	2004.4	282.81
TPF	80.00%	975.26	395.36	115.14	2288.9	322.96
TPF	75.00%	1092.2	442.76	128.95	2563.4	361.68
TPF	70.00%	1208.5	489.92	142.68	2836.3	400.20
TPF	65.00%	1317.0	533.92	155.49	3091.1	436.15
TPF	60.00%	1426.8	578.43	168.46	3348.8	472.50
TPF	55.00%	1543.3	625.65	182.21	3622.2	511.07
TPF	50.00%	1662.5	673.97	196.28	3901.9	550.54
TPF	45.00%	1785.8	723.97	210.84	4191.4	591.39
TPF	40.00%	1921.5	778.98	226.86	4509.9	636.32
TPF	35.00%	2072.7	840.25	244.71	4864.6	686.38
TPF	30.00%	2243.9	909.65	264.92	5266.4	743.06
TPF	25.00%	2440.1	988.07	288.50	5732.0	806.95
TPF	20.00%	2662.5	1069.8	317.85	6291.8	872.44
TPF	15.00%	2940.8	1172.2	354.59	6992.5	954.41
TPF	10.00%	3318.2	1311.0	404.39	7942.4	1065.5
TPF	5.00%	3927.5	1535.0	484.81	9476.1	1245.0
TPF	4.00%	4131.5	1611.3	511.84	9979.2	1308.0
TPF	3.00%	4388.5	1707.3	545.88	10613.	1387.2
TPF	2.00%	4739.6	1838.6	592.40	11479.	1495.6
TPF	1.00%	5364.8	2072.3	675.23	13021.	1688.5
TPF	0.10%	7467.4	2876.1	948.31	18116.	2357.4
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06

Rank 17 0.00% 1584.1 940.92

Prob.	BOE (MBbl)	Oil (MBbl)	COil(MBbl)	Gas (MMcf)	SGas(MMcf)	
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Mean	0.00%	1584.1	642.17	187.02	3717.8	524.57
TPF	100.00%	68.767	27.878	8.1188	161.40	22.772
TPF	99.00%	110.41	44.759	13.035	259.13	36.562
TPF	98.00%	152.45	61.802	17.998	357.80	50.484
TPF	97.00%	194.89	79.009	23.010	457.42	64.540
TPF	96.00%	237.75	96.384	28.070	558.01	78.733
TPF	95.00%	281.04	113.93	33.180	659.59	93.066
TPF	90.00%	504.09	204.36	59.514	1183.1	166.93
TPF	85.00%	739.13	299.64	87.264	1734.7	244.77
TPF	80.00%	849.84	344.52	100.33	1994.6	281.43
TPF	75.00%	943.93	382.66	111.44	2215.4	312.59
TPF	70.00%	1041.5	422.22	122.96	2444.4	344.90
TPF	65.00%	1134.0	459.72	133.88	2661.5	375.53
TPF	60.00%	1233.5	500.04	145.63	2894.9	408.47
TPF	55.00%	1324.7	537.03	156.40	3109.1	438.68
TPF	50.00%	1422.6	576.70	167.95	3338.8	471.09
TPF	45.00%	1528.9	619.81	180.51	3588.4	506.31
TPF	40.00%	1642.6	665.91	193.93	3855.3	543.96
TPF	35.00%	1762.3	714.44	208.07	4136.2	583.61
TPF	30.00%	1899.4	770.00	224.24	4457.9	628.99
TPF	25.00%	2059.9	835.05	243.19	4834.5	682.13
TPF	20.00%	2253.9	913.74	266.11	5290.0	746.40
TPF	15.00%	2495.0	1008.3	295.75	5870.3	823.12
TPF	10.00%	2815.0	1125.9	337.98	6675.7	917.35
TPF	5.00%	3344.1	1320.5	407.82	8007.6	1073.2
TPF	4.00%	3509.6	1381.4	429.66	8424.3	1121.9
TPF	3.00%	3719.8	1458.7	457.40	8953.4	1183.8
TPF	2.00%	4017.4	1568.6	496.72	9697.8	1272.8
TPF	1.00%	4539.7	1763.9	565.92	10986.	1433.9
TPF	0.10%	6336.1	2442.1	801.84	15382.	1995.8
TPF	0.00%	0.12687E+07	0.59156E+06	0.15235E+06	0.24611E+07	0.48811E+06