

GEOLOGIC ECONOMIC RESOURCE MODEL MODULE PSRK

Geologic Economic Resource Model (Ver 8.29.2005)

The Current UAI AAAAABAS is for

World Level - World Level Resources

Country Level - UNITED STATES OF AMERICA

Region Level - MMS - ALASKA REGION

Basin Level - BEAUFORT SHELF

Play Level - Play 11 - Brookian Unstructured Western Turbidite

Geologist Peter Johnson

Remarks Play 11 2005 assessment

Run date Date 16-SEP-05 Time 08:57:45

USER SUPPLIED PARAMETERS

RECOVERABLE RESOURCES? > R

B) Pool Size Distribution

Z PROB.

EXPECTATION = 73669.

S.D. = 0.15876E+06

MU = 10.229

SIG.SQ. = 2.0246

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

| | | | | | | |
|------|---------|--------|--------|--------|--------|--------|
| Mean | % | 73669. | 51016. | 3189.5 | 73173. | 36210. |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 710.51 | 479.11 | 33.926 | 789.74 | 320.06 |
| TPF | 98.00% | 1263.9 | 852.25 | 60.349 | 1404.8 | 569.33 |
| TPF | 97.00% | 1793.3 | 1209.3 | 85.630 | 1993.3 | 807.84 |
| TPF | 96.00% | 2265.0 | 1527.3 | 108.15 | 2517.6 | 1020.3 |
| TPF | 95.00% | 2710.8 | 1828.0 | 129.44 | 3013.2 | 1221.1 |
| TPF | 90.00% | 4718.3 | 3181.6 | 225.29 | 5244.4 | 2125.4 |
| TPF | 85.00% | 6710.6 | 4555.8 | 314.12 | 7283.0 | 3062.0 |
| TPF | 80.00% | 8793.9 | 5992.6 | 407.00 | 9414.5 | 4041.3 |
| TPF | 75.00% | 11151. | 7592.9 | 519.51 | 11935. | 5142.6 |
| TPF | 70.00% | 13724. | 9339.6 | 642.31 | 14686. | 6344.6 |
| TPF | 65.00% | 16551. | 11288. | 764.51 | 17543. | 7736.0 |
| TPF | 60.00% | 19866. | 13573. | 907.85 | 20895. | 9368.1 |
| TPF | 55.00% | 23655. | 16153. | 1089.4 | 24956. | 11081. |
| TPF | 50.00% | 28130. | 19200. | 1303.7 | 29751. | 13103. |
| TPF | 45.00% | 33409. | 22920. | 1514.2 | 34600. | 15838. |
| TPF | 40.00% | 39672. | 27332. | 1764.0 | 40352. | 19083. |
| TPF | 35.00% | 47402. | 32508. | 2154.8 | 48794. | 22801. |
| TPF | 30.00% | 57154. | 39038. | 2647.8 | 59445. | 27491. |

| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| TPF | 25.00% | 70127. | 48447. | 3073.4 | 70229. | 34341. |
| TPF | 20.00% | 88465. | 61748. | 3674.8 | 85473. | 44023. |
| TPF | 15.00% | 0.11632E+06 | 79825. | 5302.3 | 0.11960E+06 | 55683. |
| TPF | 10.00% | 0.16619E+06 | 0.11220E+06 | 8216.7 | 0.18070E+06 | 76565. |
| TPF | 5.00% | 0.28669E+06 | 0.19791E+06 | 12862. | 0.28516E+06 | 0.14148E+06 |
| TPF | 4.00% | 0.33518E+06 | 0.23240E+06 | 14731. | 0.32719E+06 | 0.16761E+06 |
| TPF | 3.00% | 0.41028E+06 | 0.28583E+06 | 17627. | 0.39230E+06 | 0.20807E+06 |
| TPF | 2.00% | 0.52567E+06 | 0.36791E+06 | 22075. | 0.49232E+06 | 0.27024E+06 |
| TPF | 1.00% | 0.75298E+06 | 0.52960E+06 | 30838. | 0.68937E+06 | 0.39271E+06 |
| TPF | 0.10% | 0.18677E+07 | 0.13225E+07 | 73812. | 0.16557E+07 | 0.99326E+06 |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

C) No.of Pools Distribution

Lower Support = 0
Upper Support = 12
Expectation = 2.95
Standard Deviation= 2.06

Rank 1 79.10% 0.19270E+06 0.32180E+06

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

| | | | | | | |
|------|---------|-------------|-------------|-------------|-------------|-------------|
| Mean | 79.10% | 0.19270E+06 | 0.13105E+06 | 9238.6 | 0.20368E+06 | 90847. |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 5298.6 | 3581.9 | 251.17 | 5838.2 | 2398.2 |
| TPF | 98.00% | 8308.0 | 5657.5 | 385.34 | 8917.3 | 3812.9 |
| TPF | 97.00% | 10843. | 7383.5 | 504.78 | 11605. | 4998.5 |
| TPF | 96.00% | 13092. | 8910.6 | 612.15 | 14010. | 6049.4 |
| TPF | 95.00% | 15128. | 10308. | 703.02 | 16105. | 7035.9 |
| TPF | 90.00% | 24029. | 16408. | 1107.3 | 25356. | 11250. |
| TPF | 85.00% | 32198. | 22067. | 1466.0 | 33488. | 15211. |
| TPF | 80.00% | 39952. | 27520. | 1778.2 | 40658. | 19218. |
| TPF | 75.00% | 47929. | 32861. | 2181.5 | 49370. | 23054. |
| TPF | 70.00% | 56255. | 38436. | 2602.4 | 58463. | 27058. |
| TPF | 65.00% | 65518. | 45104. | 2922.2 | 66397. | 31907. |
| TPF | 60.00% | 75513. | 52354. | 3250.0 | 74706. | 37184. |
| TPF | 55.00% | 86160. | 60076. | 3599.2 | 83557. | 42806. |
| TPF | 50.00% | 99604. | 68978. | 4325.7 | 99120. | 48686. |
| TPF | 45.00% | 0.11299E+06 | 77664. | 5107.8 | 0.11552E+06 | 54290. |
| TPF | 40.00% | 0.13244E+06 | 90291. | 6244.5 | 0.13935E+06 | 62435. |
| TPF | 35.00% | 0.15293E+06 | 0.10359E+06 | 7441.7 | 0.16445E+06 | 71012. |
| TPF | 30.00% | 0.18033E+06 | 0.12225E+06 | 8761.7 | 0.19296E+06 | 84181. |
| TPF | 25.00% | 0.22362E+06 | 0.15305E+06 | 10431. | 0.23048E+06 | 0.10750E+06 |
| TPF | 20.00% | 0.26437E+06 | 0.18204E+06 | 12002. | 0.26581E+06 | 0.12946E+06 |
| TPF | 15.00% | 0.31927E+06 | 0.22109E+06 | 14118. | 0.31340E+06 | 0.15904E+06 |
| TPF | 10.00% | 0.43183E+06 | 0.30116E+06 | 18458. | 0.41098E+06 | 0.21968E+06 |
| TPF | 5.00% | 0.66820E+06 | 0.46930E+06 | 27570. | 0.61588E+06 | 0.34703E+06 |
| TPF | 4.00% | 0.73180E+06 | 0.51454E+06 | 30022. | 0.67100E+06 | 0.38129E+06 |
| TPF | 3.00% | 0.98080E+06 | 0.69166E+06 | 39621. | 0.88685E+06 | 0.51544E+06 |
| TPF | 2.00% | 0.13208E+07 | 0.93354E+06 | 52730. | 0.11816E+07 | 0.69864E+06 |
| TPF | 1.00% | 0.16577E+07 | 0.11732E+07 | 65718. | 0.14737E+07 | 0.88015E+06 |
| TPF | 0.10% | 0.38036E+07 | 0.26996E+07 | 0.14845E+06 | 0.33338E+07 | 0.20363E+07 |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 2 73.96% 58494. 72922.

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| ---- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 73.96% | 58494. | 40009. | 2691.8 | 60558. | 28198. |
| TPF 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 | |
| TPF 99.00% | 1647.3 | 1110.8 | 78.658 | 1831.0 | 742.06 | |
| TPF 98.00% | 2799.6 | 1887.8 | 133.68 | 3111.8 | 1261.1 | |
| TPF 97.00% | 3726.6 | 2512.9 | 177.94 | 4142.1 | 1678.7 | |
| TPF 96.00% | 4590.1 | 3095.2 | 219.17 | 5101.9 | 2067.7 | |
| TPF 95.00% | 5394.3 | 3647.9 | 255.43 | 5936.1 | 2443.2 | |
| TPF 90.00% | 8927.9 | 6083.6 | 413.39 | 9557.8 | 4104.0 | |
| TPF 85.00% | 12290. | 8365.9 | 573.85 | 13152. | 5674.6 | |
| TPF 80.00% | 15478. | 10549. | 718.14 | 16459. | 7208.1 | |
| TPF 75.00% | 18727. | 12788. | 858.60 | 19743. | 8807.3 | |
| TPF 70.00% | 22099. | 15094. | 1014.8 | 23288. | 10377. | |
| TPF 65.00% | 25647. | 17510. | 1184.8 | 27090. | 11981. | |
| TPF 60.00% | 29406. | 20100. | 1354.6 | 30923. | 13764. | |
| TPF 55.00% | 33369. | 22892. | 1512.7 | 34564. | 15818. | |
| TPF 50.00% | 37842. | 26043. | 1691.0 | 38672. | 18135. | |
| TPF 45.00% | 42738. | 29385. | 1919.0 | 43700. | 20557. | |
| TPF 40.00% | 48047. | 32940. | 2187.4 | 49499. | 23111. | |
| TPF 35.00% | 54461. | 37234. | 2511.7 | 56503. | 26195. | |
| TPF 30.00% | 62047. | 42586. | 2808.3 | 63512. | 30074. | |
| TPF 25.00% | 70766. | 48911. | 3094.3 | 70760. | 34678. | |
| TPF 20.00% | 83116. | 57868. | 3499.4 | 81026. | 41199. | |
| TPF 15.00% | 0.10002E+06 | 69247. | 4349.9 | 99628. | 48860. | |
| TPF 10.00% | 0.12560E+06 | 85851. | 5844.8 | 0.13097E+06 | 59571. | |
| TPF 5.00% | 0.17847E+06 | 0.12093E+06 | 8690.2 | 0.19135E+06 | 83183. | |
| TPF 4.00% | 0.20493E+06 | 0.13975E+06 | 9709.9 | 0.21428E+06 | 97434. | |
| TPF 3.00% | 0.23421E+06 | 0.16058E+06 | 10839. | 0.23967E+06 | 0.11321E+06 | |
| TPF 2.00% | 0.26799E+06 | 0.18461E+06 | 12141. | 0.26895E+06 | 0.13141E+06 | |
| TPF 1.00% | 0.33468E+06 | 0.23205E+06 | 14712. | 0.32676E+06 | 0.16734E+06 | |
| TPF 0.10% | 0.70023E+06 | 0.49208E+06 | 28805. | 0.64364E+06 | 0.36428E+06 | |
| TPF 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 | |

Rank 3 61.01% 29188. 31790.

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------------|------------|------------|------------|------------|------------|--------|
| ----- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 61.01% | 29188. | 19946. | 1345.9 | 30724. | 13652. |
| TPF 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 | |
| TPF 99.00% | 739.44 | 498.62 | 35.308 | 821.90 | 333.09 | |
| TPF 98.00% | 1308.6 | 882.39 | 62.483 | 1454.5 | 589.47 | |
| TPF 97.00% | 1839.4 | 1240.3 | 87.828 | 2044.5 | 828.57 | |
| TPF 96.00% | 2306.4 | 1555.2 | 110.13 | 2563.6 | 1038.9 | |
| TPF 95.00% | 2739.4 | 1847.2 | 130.80 | 3044.9 | 1234.0 | |
| TPF 90.00% | 4613.2 | 3110.8 | 220.28 | 5127.7 | 2078.1 | |
| TPF 85.00% | 6350.3 | 4307.2 | 298.05 | 6914.3 | 2892.6 | |
| TPF 80.00% | 8048.7 | 5478.6 | 373.77 | 8652.0 | 3691.0 | |
| TPF 75.00% | 9801.7 | 6676.8 | 455.10 | 10492. | 4512.2 | |
| TPF 70.00% | 11622. | 7912.9 | 542.00 | 12439. | 5362.8 | |
| TPF 65.00% | 13508. | 9193.0 | 632.00 | 14455. | 6243.8 | |

| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| TPF | 60.00% | 15511. | 10572. | 719.58 | 16493. | 7224.5 |
| TPF | 55.00% | 17669. | 12059. | 812.88 | 18674. | 8286.8 |
| TPF | 50.00% | 20005. | 13668. | 914.51 | 21044. | 9430.9 |
| TPF | 45.00% | 22653. | 15471. | 1041.4 | 23882. | 10628. |
| TPF | 40.00% | 25624. | 17494. | 1183.7 | 27066. | 11971. |
| TPF | 35.00% | 28959. | 19785. | 1336.8 | 30514. | 13533. |
| TPF | 30.00% | 32859. | 22532. | 1492.3 | 34095. | 15554. |
| TPF | 25.00% | 37594. | 25868. | 1681.1 | 38444. | 18006. |
| TPF | 20.00% | 43478. | 29880. | 1956.4 | 44509. | 20913. |
| TPF | 15.00% | 51291. | 35112. | 2351.4 | 53041. | 24671. |
| TPF | 10.00% | 62966. | 43253. | 2838.5 | 64276. | 30559. |
| TPF | 5.00% | 84876. | 59145. | 3557.1 | 82489. | 42128. |
| TPF | 4.00% | 92753. | 64531. | 3925.4 | 90726. | 45818. |
| TPF | 3.00% | 0.10395E+06 | 71800. | 4579.8 | 0.10445E+06 | 50507. |
| TPF | 2.00% | 0.11851E+06 | 81249. | 5430.5 | 0.12228E+06 | 56602. |
| TPF | 1.00% | 0.15170E+06 | 0.10279E+06 | 7370.1 | 0.16295E+06 | 70499. |
| TPF | 0.10% | 0.28484E+06 | 0.19659E+06 | 12791. | 0.28355E+06 | 0.14049E+06 |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 4 41.87% 18049. 18451.

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| ----- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 41.87% | 18049. | 12321. | 829.31 | 19058. | 8473.8 |
| TPF 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 | |
| TPF 99.00% | 415.25 | 280.01 | 19.828 | 461.56 | 187.06 | |
| TPF 98.00% | 777.61 | 524.36 | 37.130 | 864.33 | 350.29 | |
| TPF 97.00% | 1086.8 | 732.84 | 51.893 | 1208.0 | 489.57 | |
| TPF 96.00% | 1389.6 | 937.06 | 66.355 | 1544.6 | 625.99 | |
| TPF 95.00% | 1684.3 | 1135.7 | 80.423 | 1872.1 | 758.71 | |
| TPF 90.00% | 2936.8 | 1980.3 | 140.23 | 3264.3 | 1322.9 | |
| TPF 85.00% | 4042.2 | 2725.7 | 193.01 | 4493.0 | 1820.9 | |
| TPF 80.00% | 5142.0 | 3473.9 | 244.18 | 5678.0 | 2324.6 | |
| TPF 75.00% | 6238.3 | 4230.0 | 293.06 | 6799.7 | 2840.0 | |
| TPF 70.00% | 7369.1 | 5009.9 | 343.48 | 7956.7 | 3371.6 | |
| TPF 65.00% | 8532.2 | 5812.1 | 395.33 | 9146.7 | 3918.3 | |
| TPF 60.00% | 9831.9 | 6697.3 | 456.54 | 10524. | 4526.3 | |
| TPF 55.00% | 11195. | 7622.4 | 521.58 | 11981. | 5162.9 | |
| TPF 50.00% | 12714. | 8653.8 | 594.09 | 13606. | 5872.7 | |
| TPF 45.00% | 14335. | 9760.7 | 668.72 | 15303. | 6645.3 | |
| TPF 40.00% | 16122. | 10993. | 746.00 | 17110. | 7525.2 | |
| TPF 35.00% | 18247. | 12457. | 837.83 | 19258. | 8570.9 | |
| TPF 30.00% | 20681. | 14128. | 946.88 | 21768. | 9736.4 | |
| TPF 25.00% | 23554. | 16085. | 1084.5 | 24847. | 11035. | |
| TPF 20.00% | 27275. | 18618. | 1262.8 | 28835. | 12717. | |
| TPF 15.00% | 32148. | 22031. | 1464.0 | 33442. | 15185. | |
| TPF 10.00% | 39112. | 26938. | 1741.7 | 39838. | 18793. | |
| TPF 5.00% | 52117. | 35665. | 2393.2 | 53943. | 25068. | |
| TPF 4.00% | 56254. | 38435. | 2602.3 | 58462. | 27058. | |
| TPF 3.00% | 62432. | 42865. | 2820.9 | 63831. | 30277. | |
| TPF 2.00% | 70689. | 48855. | 3091.8 | 70696. | 34637. | |
| TPF 1.00% | 87007. | 60691. | 3627.0 | 84261. | 43253. | |
| TPF 0.10% | 0.15721E+06 | 0.10637E+06 | 7691.9 | 0.16970E+06 | 72806. | |
| TPF 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 | |

Rank 5 23.25% 12678. 12441.

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|-------------|-------------|-------------|-------------|-------------|
| ----- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 23.25% | 12678. | 8629.3 | 592.37 | 13567. | 5855.8 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 281.62 | 189.90 | 13.447 | 313.02 | 126.86 |
| TPF | 98.00% | 526.57 | 355.08 | 25.143 | 585.29 | 237.20 |
| TPF | 97.00% | 761.37 | 513.40 | 36.355 | 846.28 | 342.97 |
| TPF | 96.00% | 964.18 | 650.16 | 46.039 | 1071.7 | 434.33 |
| TPF | 95.00% | 1167.7 | 787.41 | 55.758 | 1297.9 | 526.02 |
| TPF | 90.00% | 2117.1 | 1427.6 | 101.09 | 2353.2 | 953.67 |
| TPF | 85.00% | 2945.7 | 1986.4 | 140.66 | 3274.2 | 1327.0 |
| TPF | 80.00% | 3725.7 | 2512.3 | 177.90 | 4141.2 | 1678.3 |
| TPF | 75.00% | 4525.8 | 3051.8 | 216.10 | 5030.5 | 2038.7 |
| TPF | 70.00% | 5344.2 | 3613.3 | 253.20 | 5884.9 | 2419.7 |
| TPF | 65.00% | 6187.6 | 4195.0 | 290.80 | 6747.8 | 2816.2 |
| TPF | 60.00% | 7077.6 | 4808.9 | 330.48 | 7658.4 | 3234.5 |
| TPF | 55.00% | 8028.8 | 5464.9 | 372.89 | 8631.7 | 3681.7 |
| TPF | 50.00% | 9054.4 | 6169.5 | 419.43 | 9693.1 | 4163.1 |
| TPF | 45.00% | 10240. | 6974.6 | 476.04 | 10961. | 4717.1 |
| TPF | 40.00% | 11531. | 7850.6 | 537.62 | 12341. | 5319.9 |
| TPF | 35.00% | 13002. | 8849.7 | 607.87 | 13914. | 6007.5 |
| TPF | 30.00% | 14685. | 10002. | 683.88 | 15658. | 6817.9 |
| TPF | 25.00% | 16633. | 11345. | 768.08 | 17627. | 7776.7 |
| TPF | 20.00% | 19198. | 13113. | 878.98 | 20220. | 9039.4 |
| TPF | 15.00% | 22537. | 15393. | 1035.8 | 23758. | 10576. |
| TPF | 10.00% | 27395. | 18700. | 1268.5 | 28964. | 12771. |
| TPF | 5.00% | 36244. | 24917. | 1627.3 | 37204. | 17307. |
| TPF | 4.00% | 39070. | 26908. | 1740.0 | 39800. | 18771. |
| TPF | 3.00% | 43102. | 29629. | 1937.4 | 44098. | 20733. |
| TPF | 2.00% | 48700. | 33377. | 2220.4 | 50212. | 23425. |
| TPF | 1.00% | 59078. | 40433. | 2710.9 | 61044. | 28507. |
| TPF | 0.10% | 0.10191E+06 | 70476. | 4460.6 | 0.10195E+06 | 49653. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 6 10.41% 9675.0 9187.0

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|------------|------------|------------|------------|--------|
| ----- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 10.41% | 9675.0 | 6590.8 | 449.05 | 10357. | 4453.0 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 214.42 | 144.59 | 10.238 | 238.33 | 96.590 |
| TPF | 98.00% | 392.39 | 264.59 | 18.736 | 436.14 | 176.76 |
| TPF | 97.00% | 571.40 | 385.30 | 27.284 | 635.12 | 257.40 |
| TPF | 96.00% | 744.19 | 501.82 | 35.535 | 827.19 | 335.24 |
| TPF | 95.00% | 893.15 | 602.27 | 42.647 | 992.75 | 402.34 |
| TPF | 90.00% | 1635.2 | 1102.6 | 78.079 | 1817.5 | 736.60 |
| TPF | 85.00% | 2317.6 | 1562.8 | 110.67 | 2576.1 | 1044.0 |
| TPF | 80.00% | 2945.8 | 1986.4 | 140.66 | 3274.3 | 1327.0 |
| TPF | 75.00% | 3557.4 | 2398.8 | 169.86 | 3954.1 | 1602.5 |
| TPF | 70.00% | 4194.4 | 2828.4 | 200.28 | 4662.1 | 1889.4 |
| TPF | 65.00% | 4859.0 | 3278.7 | 231.57 | 5388.5 | 2191.6 |

| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| TPF | 60.00% | 5552.3 | 3756.8 | 262.48 | 6097.8 | 2517.5 |
| TPF | 55.00% | 6283.1 | 4260.9 | 295.06 | 6845.5 | 2861.0 |
| TPF | 50.00% | 7073.6 | 4806.1 | 330.30 | 7654.3 | 3232.6 |
| TPF | 45.00% | 7937.9 | 5402.3 | 368.84 | 8538.7 | 3639.0 |
| TPF | 40.00% | 8877.7 | 6049.5 | 411.00 | 9504.1 | 4080.5 |
| TPF | 35.00% | 10022. | 6826.1 | 465.60 | 10727. | 4614.9 |
| TPF | 30.00% | 11294. | 7689.8 | 526.32 | 12088. | 5209.3 |
| TPF | 25.00% | 12837. | 8737.2 | 599.96 | 13737. | 5930.1 |
| TPF | 20.00% | 14699. | 10012. | 684.48 | 15672. | 6824.7 |
| TPF | 15.00% | 17115. | 11677. | 788.93 | 18114. | 8014.0 |
| TPF | 10.00% | 20722. | 14156. | 948.85 | 21812. | 9754.9 |
| TPF | 5.00% | 27178. | 18553. | 1258.2 | 28732. | 12673. |
| TPF | 4.00% | 29369. | 20074. | 1353.2 | 30890. | 13745. |
| TPF | 3.00% | 32231. | 22090. | 1467.3 | 33519. | 15228. |
| TPF | 2.00% | 36423. | 25043. | 1634.4 | 37368. | 17400. |
| TPF | 1.00% | 43879. | 30149. | 1976.7 | 44947. | 21106. |
| TPF | 0.10% | 72546. | 50202. | 3152.7 | 72239. | 35618. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 7 3.79% 7792.7 7191.7

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|-------------|-------------|-------------|-------------|-------------|
| ----- | | | | | | |
| Mean | 3.79% | 7792.7 | 5302.1 | 362.36 | 8390.1 | 3570.7 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 174.77 | 117.85 | 8.3454 | 194.27 | 78.730 |
| TPF | 98.00% | 313.04 | 211.09 | 14.947 | 347.94 | 141.01 |
| TPF | 97.00% | 452.28 | 304.98 | 21.596 | 502.72 | 203.74 |
| TPF | 96.00% | 592.54 | 399.56 | 28.293 | 658.61 | 266.92 |
| TPF | 95.00% | 729.67 | 492.03 | 34.841 | 811.04 | 328.69 |
| TPF | 90.00% | 1321.1 | 890.82 | 63.080 | 1468.4 | 595.10 |
| TPF | 85.00% | 1899.1 | 1280.6 | 90.679 | 2110.9 | 855.47 |
| TPF | 80.00% | 2437.8 | 1643.9 | 116.41 | 2709.7 | 1098.2 |
| TPF | 75.00% | 2953.3 | 1991.5 | 141.02 | 3282.7 | 1330.4 |
| TPF | 70.00% | 3465.4 | 2336.8 | 165.47 | 3851.9 | 1561.1 |
| TPF | 65.00% | 4004.5 | 2700.3 | 191.21 | 4451.0 | 1803.9 |
| TPF | 60.00% | 4574.2 | 3084.5 | 218.42 | 5084.4 | 2060.6 |
| TPF | 55.00% | 5176.1 | 3497.4 | 245.70 | 5712.9 | 2340.6 |
| TPF | 50.00% | 5818.0 | 3940.1 | 274.33 | 6369.7 | 2642.4 |
| TPF | 45.00% | 6508.9 | 4416.7 | 305.13 | 7076.6 | 2967.2 |
| TPF | 40.00% | 7284.0 | 4951.2 | 339.68 | 7869.6 | 3331.6 |
| TPF | 35.00% | 8144.8 | 5544.9 | 378.06 | 8750.4 | 3736.2 |
| TPF | 30.00% | 9143.7 | 6230.1 | 423.69 | 9788.5 | 4204.8 |
| TPF | 25.00% | 10374. | 7065.2 | 482.41 | 11104. | 4779.5 |
| TPF | 20.00% | 11868. | 8079.4 | 553.71 | 12701. | 5477.4 |
| TPF | 15.00% | 13772. | 9372.9 | 644.40 | 14735. | 6368.4 |
| TPF | 10.00% | 16493. | 11248. | 762.03 | 17485. | 7707.8 |
| TPF | 5.00% | 21539. | 14713. | 987.99 | 22688. | 10124. |
| TPF | 4.00% | 23159. | 15815. | 1065.6 | 24424. | 10856. |
| TPF | 3.00% | 25411. | 17349. | 1173.5 | 26838. | 11874. |
| TPF | 2.00% | 28560. | 19504. | 1320.9 | 30147. | 13326. |
| TPF | 1.00% | 34299. | 23547. | 1549.7 | 35418. | 16300. |
| TPF | 0.10% | 55641. | 38024. | 2571.3 | 57792. | 26763. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 8 1.13% 6495.2 5850.1

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| ---- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 1.13% | 6495.2 | 4407.2 | 304.51 | 7062.5 | 2960.7 |
| TPF 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 | |
| TPF 99.00% | 148.31 | 100.01 | 7.0816 | 164.85 | 66.808 | |
| TPF 98.00% | 260.00 | 175.32 | 12.415 | 288.99 | 117.12 | |
| TPF 97.00% | 372.57 | 251.23 | 17.790 | 414.12 | 167.83 | |
| TPF 96.00% | 486.04 | 327.75 | 23.208 | 540.24 | 218.95 | |
| TPF 95.00% | 600.43 | 404.88 | 28.670 | 667.39 | 270.47 | |
| TPF 90.00% | 1102.1 | 743.14 | 52.623 | 1225.0 | 496.44 | |
| TPF 85.00% | 1590.6 | 1072.5 | 75.948 | 1767.9 | 716.50 | |
| TPF 80.00% | 2061.7 | 1390.2 | 98.444 | 2291.6 | 928.72 | |
| TPF 75.00% | 2518.4 | 1698.2 | 120.25 | 2799.2 | 1134.4 | |
| TPF 70.00% | 2960.2 | 1996.1 | 141.35 | 3290.3 | 1333.5 | |
| TPF 65.00% | 3407.1 | 2297.5 | 162.69 | 3787.1 | 1534.8 | |
| TPF 60.00% | 3881.9 | 2617.6 | 185.36 | 4314.8 | 1748.7 | |
| TPF 55.00% | 4388.8 | 2959.5 | 209.56 | 4878.3 | 1977.0 | |
| TPF 50.00% | 4931.9 | 3329.0 | 234.82 | 5463.0 | 2225.9 | |
| TPF 45.00% | 5517.1 | 3732.6 | 260.91 | 6061.8 | 2500.9 | |
| TPF 40.00% | 6156.3 | 4173.5 | 289.41 | 6715.8 | 2801.5 | |
| TPF 35.00% | 6869.7 | 4665.5 | 321.21 | 7445.7 | 3136.8 | |
| TPF 30.00% | 7698.1 | 5236.8 | 358.14 | 8293.3 | 3526.2 | |
| TPF 25.00% | 8645.9 | 5890.5 | 400.40 | 9263.0 | 3971.8 | |
| TPF 20.00% | 9888.3 | 6735.6 | 459.23 | 10585. | 4552.6 | |
| TPF 15.00% | 11464. | 7805.7 | 534.46 | 12270. | 5289.0 | |
| TPF 10.00% | 13701. | 9323.9 | 641.21 | 14661. | 6333.8 | |
| TPF 5.00% | 17674. | 12062. | 813.07 | 18679. | 8288.9 | |
| TPF 4.00% | 19002. | 12978. | 870.48 | 20021. | 8942.6 | |
| TPF 3.00% | 20752. | 14177. | 950.30 | 21845. | 9768.6 | |
| TPF 2.00% | 23246. | 15875. | 1069.8 | 24517. | 10896. | |
| TPF 1.00% | 27778. | 18961. | 1286.9 | 29375. | 12945. | |
| TPF 0.10% | 44663. | 30674. | 2016.3 | 45803. | 21483. | |
| TPF 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 | |

Rank 9 0.27% 5534.0 4885.2

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------------|------------|------------|------------|------------|------------|--------|
| ---- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 0.27% | 5534.0 | 3744.2 | 261.66 | 6079.1 | 2508.9 |
| TPF 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 | |
| TPF 99.00% | 129.03 | 87.008 | 6.1611 | 143.42 | 58.124 | |
| TPF 98.00% | 221.34 | 149.25 | 10.569 | 246.03 | 99.707 | |
| TPF 97.00% | 314.43 | 212.03 | 15.014 | 349.50 | 141.64 | |
| TPF 96.00% | 408.32 | 275.33 | 19.497 | 453.85 | 183.93 | |
| TPF 95.00% | 503.01 | 339.19 | 24.018 | 559.10 | 226.59 | |
| TPF 90.00% | 939.62 | 633.60 | 44.866 | 1044.4 | 423.27 | |
| TPF 85.00% | 1354.0 | 913.04 | 64.654 | 1505.0 | 609.95 | |
| TPF 80.00% | 1774.4 | 1196.5 | 84.724 | 1972.2 | 799.29 | |
| TPF 75.00% | 2170.8 | 1463.8 | 103.65 | 2412.8 | 977.86 | |
| TPF 70.00% | 2569.8 | 1732.9 | 122.71 | 2856.4 | 1157.6 | |
| TPF 65.00% | 2960.2 | 1996.1 | 141.35 | 3290.3 | 1333.5 | |

| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| TPF | 60.00% | 3361.5 | 2266.7 | 160.51 | 3736.3 | 1514.2 |
| TPF | 55.00% | 3791.5 | 2556.7 | 181.04 | 4214.3 | 1708.0 |
| TPF | 50.00% | 4255.5 | 2869.5 | 203.19 | 4730.0 | 1916.9 |
| TPF | 45.00% | 4759.5 | 3210.1 | 227.13 | 5286.7 | 2144.8 |
| TPF | 40.00% | 5309.0 | 3589.0 | 251.63 | 5848.8 | 2403.1 |
| TPF | 35.00% | 5919.3 | 4010.0 | 278.84 | 6473.3 | 2690.0 |
| TPF | 30.00% | 6607.7 | 4484.8 | 309.53 | 7177.6 | 3013.6 |
| TPF | 25.00% | 7431.9 | 5053.2 | 346.27 | 8020.9 | 3401.1 |
| TPF | 20.00% | 8414.5 | 5730.9 | 390.08 | 9026.3 | 3863.0 |
| TPF | 15.00% | 9742.6 | 6636.7 | 452.28 | 10429. | 4484.6 |
| TPF | 10.00% | 11625. | 7914.7 | 542.13 | 12442. | 5364.0 |
| TPF | 5.00% | 14902. | 10152. | 693.24 | 15877. | 6924.5 |
| TPF | 4.00% | 15951. | 10875. | 738.60 | 16937. | 7441.0 |
| TPF | 3.00% | 17378. | 11858. | 800.28 | 18380. | 8143.3 |
| TPF | 2.00% | 19433. | 13275. | 889.12 | 20457. | 9154.8 |
| TPF | 1.00% | 23094. | 15772. | 1062.5 | 24354. | 10827. |
| TPF | 0.10% | 36769. | 25287. | 1648.3 | 37686. | 17579. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 10 0.05% 4789.8 4160.2

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|-------------|-------------|-------------|-------------|-------------|
| ----- | | | | | | |
| Mean | 0.05% | 4789.8 | 3230.9 | 228.48 | 5317.6 | 2159.1 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 114.32 | 77.088 | 5.4587 | 127.07 | 51.497 |
| TPF | 98.00% | 191.83 | 129.35 | 9.1597 | 213.22 | 86.413 |
| TPF | 97.00% | 270.02 | 182.08 | 12.893 | 300.14 | 121.64 |
| TPF | 96.00% | 348.92 | 235.28 | 16.661 | 387.83 | 157.18 |
| TPF | 95.00% | 428.52 | 288.96 | 20.462 | 476.31 | 193.04 |
| TPF | 90.00% | 815.12 | 549.65 | 38.921 | 906.02 | 367.19 |
| TPF | 85.00% | 1168.1 | 787.69 | 55.777 | 1298.4 | 526.20 |
| TPF | 80.00% | 1527.6 | 1030.1 | 72.944 | 1698.0 | 688.15 |
| TPF | 75.00% | 1890.8 | 1275.0 | 90.285 | 2101.7 | 851.75 |
| TPF | 70.00% | 2244.8 | 1513.7 | 107.19 | 2495.2 | 1011.2 |
| TPF | 65.00% | 2602.0 | 1754.6 | 124.24 | 2892.1 | 1172.1 |
| TPF | 60.00% | 2955.5 | 1993.0 | 141.12 | 3285.1 | 1331.4 |
| TPF | 55.00% | 3323.9 | 2241.4 | 158.72 | 3694.6 | 1497.3 |
| TPF | 50.00% | 3722.7 | 2510.3 | 177.75 | 4137.8 | 1676.9 |
| TPF | 45.00% | 4157.6 | 2803.6 | 198.52 | 4621.3 | 1872.9 |
| TPF | 40.00% | 4636.8 | 3126.7 | 221.41 | 5153.9 | 2088.7 |
| TPF | 35.00% | 5167.9 | 3491.7 | 245.34 | 5704.5 | 2336.8 |
| TPF | 30.00% | 5768.9 | 3906.3 | 272.14 | 6319.4 | 2619.3 |
| TPF | 25.00% | 6464.6 | 4386.1 | 303.15 | 7031.3 | 2946.4 |
| TPF | 20.00% | 7321.1 | 4976.8 | 341.34 | 7907.6 | 3349.0 |
| TPF | 15.00% | 8404.3 | 5723.9 | 389.63 | 9015.9 | 3858.2 |
| TPF | 10.00% | 10008. | 6816.7 | 464.93 | 10712. | 4608.4 |
| TPF | 5.00% | 12791. | 8705.9 | 597.76 | 13688. | 5908.5 |
| TPF | 4.00% | 13670. | 9302.9 | 639.73 | 14628. | 6319.4 |
| TPF | 3.00% | 14873. | 10132. | 691.98 | 15847. | 6910.2 |
| TPF | 2.00% | 16508. | 11259. | 762.66 | 17500. | 7715.0 |
| TPF | 1.00% | 19576. | 13373. | 895.30 | 20601. | 9225.2 |
| TPF | 0.10% | 30861. | 21125. | 1412.7 | 32260. | 14519. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 11 0.01% 4199.4 3600.4

| Prob. | BOE (MBbl) | Oil (MBbl) | Coil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|-------------|-------------|-------------|-------------|-------------|
| ---- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 0.01% | 4199.4 | 2831.7 | 200.52 | 4667.7 | 1891.7 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 102.85 | 69.357 | 4.9112 | 114.33 | 46.333 |
| TPF | 98.00% | 168.82 | 113.84 | 8.0610 | 187.65 | 76.048 |
| TPF | 97.00% | 235.39 | 158.73 | 11.240 | 261.64 | 106.03 |
| TPF | 96.00% | 302.57 | 204.03 | 14.448 | 336.31 | 136.30 |
| TPF | 95.00% | 370.38 | 249.76 | 17.686 | 411.69 | 166.85 |
| TPF | 90.00% | 717.75 | 483.99 | 34.272 | 797.80 | 323.33 |
| TPF | 85.00% | 1019.3 | 687.31 | 48.669 | 1132.9 | 459.15 |
| TPF | 80.00% | 1333.9 | 899.47 | 63.693 | 1482.7 | 600.88 |
| TPF | 75.00% | 1655.5 | 1116.3 | 79.047 | 1840.1 | 745.73 |
| TPF | 70.00% | 1974.6 | 1331.5 | 94.285 | 2194.8 | 889.48 |
| TPF | 65.00% | 2296.9 | 1548.8 | 109.67 | 2553.0 | 1034.7 |
| TPF | 60.00% | 2625.1 | 1770.2 | 125.35 | 2917.9 | 1182.5 |
| TPF | 55.00% | 2952.2 | 1990.7 | 140.97 | 3281.4 | 1329.9 |
| TPF | 50.00% | 3297.8 | 2223.7 | 157.47 | 3665.5 | 1485.5 |
| TPF | 45.00% | 3675.8 | 2478.7 | 175.52 | 4085.7 | 1655.8 |
| TPF | 40.00% | 4093.5 | 2760.3 | 195.46 | 4550.0 | 1844.0 |
| TPF | 35.00% | 4560.9 | 3075.5 | 217.78 | 5069.5 | 2054.5 |
| TPF | 30.00% | 5089.7 | 3437.8 | 241.85 | 5624.5 | 2300.0 |
| TPF | 25.00% | 5702.9 | 3860.7 | 269.19 | 6251.9 | 2588.3 |
| TPF | 20.00% | 6438.0 | 4367.7 | 301.96 | 7004.0 | 2933.9 |
| TPF | 15.00% | 7390.9 | 5024.9 | 344.45 | 7979.0 | 3381.8 |
| TPF | 10.00% | 8704.3 | 5930.8 | 403.00 | 9322.8 | 3999.2 |
| TPF | 5.00% | 11096. | 7555.7 | 516.89 | 11876. | 5117.0 |
| TPF | 4.00% | 11898. | 8099.9 | 555.15 | 12733. | 5491.5 |
| TPF | 3.00% | 12912. | 8788.1 | 603.54 | 13817. | 5965.1 |
| TPF | 2.00% | 14348. | 9769.9 | 669.30 | 15317. | 6651.9 |
| TPF | 1.00% | 16849. | 11494. | 777.40 | 17845. | 7882.8 |
| TPF | 0.10% | 26293. | 17950. | 1215.7 | 27783. | 12273. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |

Rank 12 0.00% 3724.5 3160.5

| Prob. | BOE (MBbl) | Oil (MBbl) | COil(MBbl) | Gas (MMcf) | SGas(MMcf) | |
|-------|------------|------------|------------|------------|------------|--------|
| ---- | ----- | ----- | ----- | ----- | ----- | |
| Mean | 0.00% | 3724.5 | 2511.5 | 177.84 | 4139.9 | 1677.8 |
| TPF | 100.00% | 37.483 | 25.275 | 1.7898 | 41.663 | 16.885 |
| TPF | 99.00% | 93.827 | 63.269 | 4.4802 | 104.29 | 42.266 |
| TPF | 98.00% | 150.70 | 101.62 | 7.1956 | 167.50 | 67.883 |
| TPF | 97.00% | 208.10 | 140.32 | 9.9365 | 231.30 | 93.742 |
| TPF | 96.00% | 266.05 | 179.40 | 12.703 | 295.71 | 119.85 |
| TPF | 95.00% | 324.55 | 218.85 | 15.497 | 360.74 | 146.20 |
| TPF | 90.00% | 625.81 | 422.00 | 29.882 | 695.60 | 281.91 |
| TPF | 85.00% | 901.53 | 607.91 | 43.047 | 1002.1 | 406.11 |
| TPF | 80.00% | 1176.6 | 793.42 | 56.183 | 1307.8 | 530.04 |
| TPF | 75.00% | 1459.2 | 983.94 | 69.674 | 1621.9 | 657.31 |
| TPF | 70.00% | 1755.5 | 1183.8 | 83.824 | 1951.3 | 790.80 |
| TPF | 65.00% | 2041.5 | 1376.6 | 97.481 | 2269.2 | 919.64 |

| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| TPF | 60.00% | 2339.7 | 1577.7 | 111.72 | 2600.6 | 1054.0 |
| TPF | 55.00% | 2648.4 | 1785.9 | 126.46 | 2943.7 | 1193.0 |
| TPF | 50.00% | 2956.8 | 1993.8 | 141.18 | 3286.5 | 1331.9 |
| TPF | 45.00% | 3288.0 | 2217.2 | 157.00 | 3654.7 | 1481.2 |
| TPF | 40.00% | 3654.9 | 2464.6 | 174.52 | 4062.5 | 1646.4 |
| TPF | 35.00% | 4066.6 | 2742.2 | 194.18 | 4520.1 | 1831.9 |
| TPF | 30.00% | 4536.1 | 3058.8 | 216.59 | 5041.9 | 2043.4 |
| TPF | 25.00% | 5080.9 | 3431.7 | 241.46 | 5615.5 | 2295.9 |
| TPF | 20.00% | 5735.0 | 3882.8 | 270.62 | 6284.7 | 2603.4 |
| TPF | 15.00% | 6560.4 | 4452.2 | 307.42 | 7129.3 | 2991.4 |
| TPF | 10.00% | 7735.4 | 5262.6 | 359.81 | 8331.5 | 3543.8 |
| TPF | 5.00% | 9780.3 | 6662.3 | 454.08 | 10469. | 4502.2 |
| TPF | 4.00% | 10457. | 7121.7 | 486.38 | 11193. | 4818.3 |
| TPF | 3.00% | 11326. | 7711.4 | 527.84 | 12121. | 5224.1 |
| TPF | 2.00% | 12602. | 8577.9 | 588.76 | 13486. | 5820.4 |
| TPF | 1.00% | 14782. | 10069. | 688.03 | 15755. | 6865.2 |
| TPF | 0.10% | 22720. | 15517. | 1044.6 | 23953. | 10658. |
| TPF | 0.00% | 0.45139E+07 | 0.32049E+07 | 0.17583E+06 | 0.39495E+07 | 0.24189E+07 |