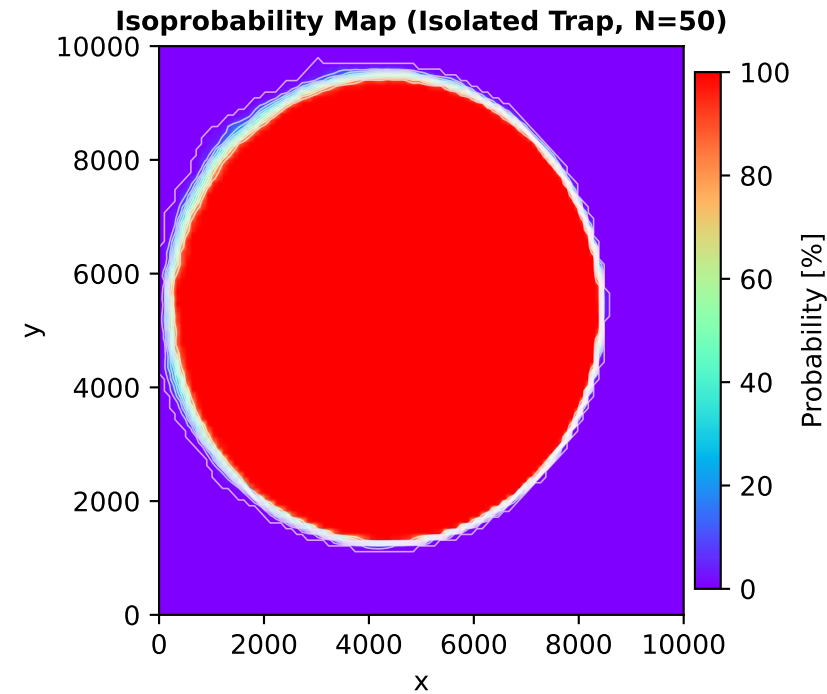
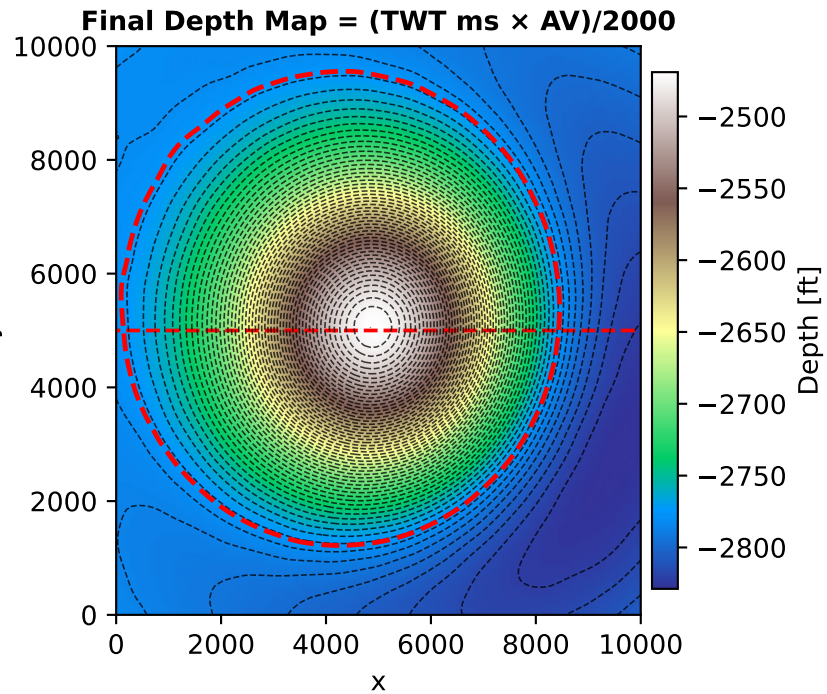
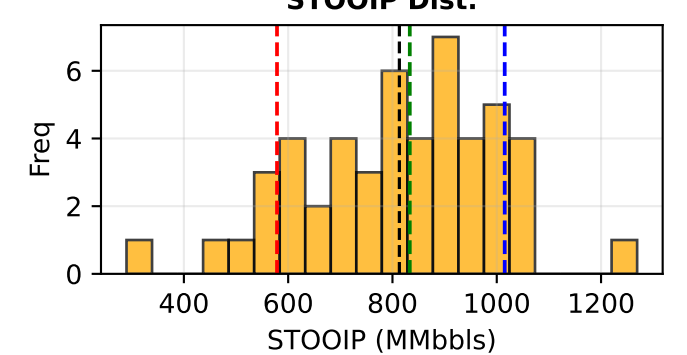
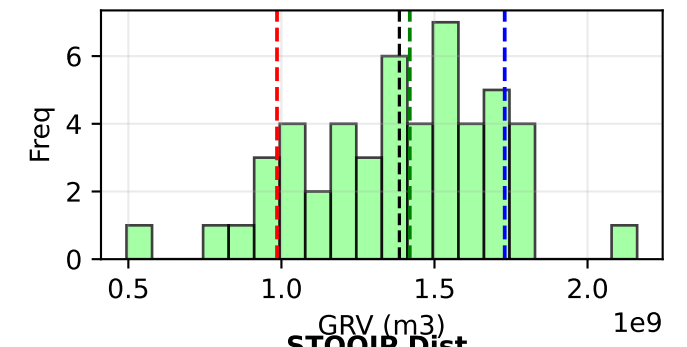
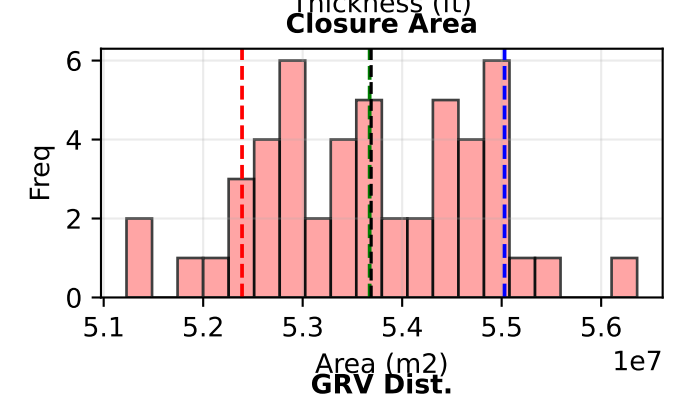
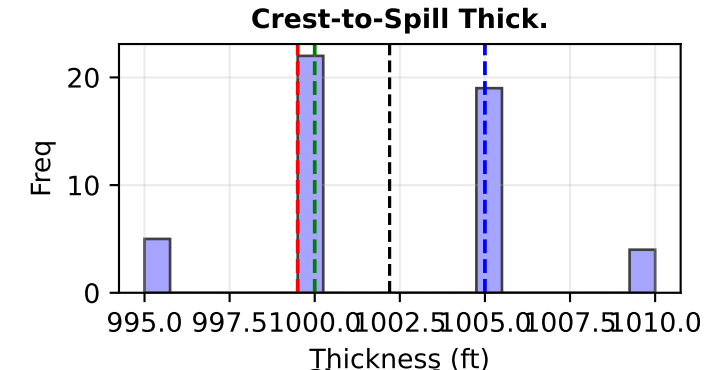
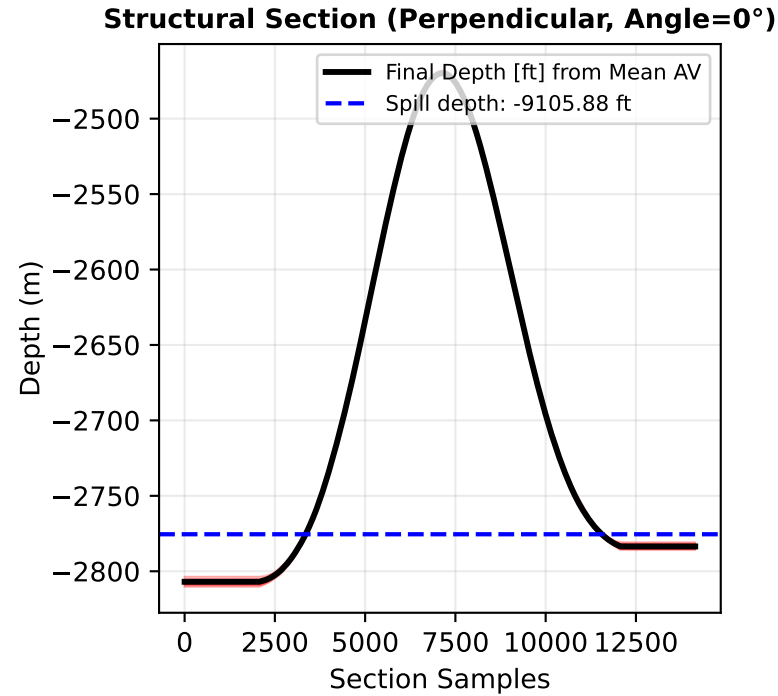
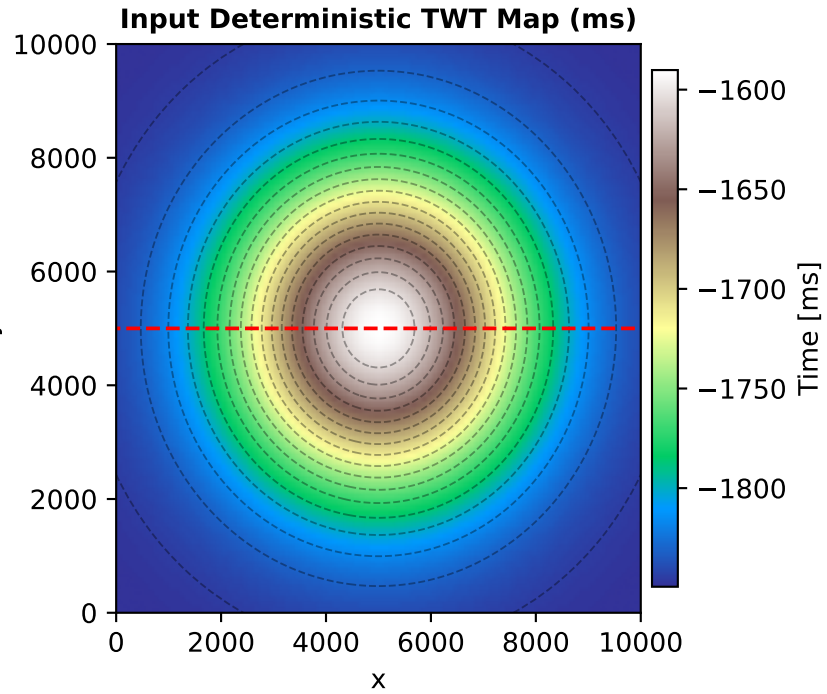


Structural Uncertainty Evaluation



Structural Uncertainty Evaluation — Summary Table



Summary Statistics (P90 / P50 / P10 / Mean)

Metric	P90	P50	P10	Mean
Thickness (ft)	999.5	1000.0	1005.0	1002.2
Area (m2)	52390572.391	53673094.582	55029078.665	53687991.021
GRV (m3)	985569817.6	1419314176.0	1729411072.0	1385296317.44
STOOIP (MMbbls)	578.577	833.206	1015.247	813.235



Realization	SpillDepth(ft)	CrestDepth(ft)	Thickness(ft)	Area(m2)	GRV(m3)	STOOIP(MMbbIs)
1.0	-9106.227	-8101.227	1005.0	55014794.409	1505290240.0	883.678
2.0	-9100.477	-8100.477	1000.0	53014998.47	897940736.0	527.134
3.0	-9102.011	-8097.011	1005.0	53351698.806	1651763712.0	969.665
4.0	-9106.115	-8101.115	1005.0	54627078.87	1750011136.0	1027.341
5.0	-9101.459	-8101.459	1000.0	53474135.292	493986816.0	289.994
6.0	-9102.052	-8102.052	1000.0	53484338.333	778007808.0	456.728
7.0	-9101.554	-8096.554	1005.0	52974186.308	1404481536.0	824.498
8.0	-9095.332	-8100.332	995.0	51851851.852	1193128704.0	700.424
9.0	-9101.077	-8101.077	1000.0	53259871.442	1345501440.0	789.874
10.0	-9105.895	-8095.895	1010.0	54596469.748	1002689536.0	588.627
11.0	-9106.104	-8106.104	1000.0	54453627.181	1727122176.0	1013.904
12.0	-9107.182	-8102.182	1005.0	54963779.206	1692471296.0	993.562
13.0	-9099.473	-8099.473	1000.0	52902765.024	1371733248.0	805.273
14.0	-9107.466	-8102.466	1005.0	54984185.287	1823897856.0	1070.716
15.0	-9102.965	-8097.965	1005.0	53627180.9	1546697984.0	907.986
16.0	-9108.396	-8098.396	1010.0	55076012.652	1007768064.0	591.608
17.0	-9099.031	-8099.031	1000.0	52504846.444	1489127936.0	874.19
18.0	-9098.423	-8098.423	1000.0	52402816.039	925160192.0	543.113
19.0	-9099.643	-8099.643	1000.0	53137434.956	1686955520.0	990.324
20.0	-9102.435	-8102.435	1000.0	53616977.859	1332476416.0	782.228
21.0	-9097.441	-8097.441	1000.0	52086521.783	1260432384.0	739.934
22.0	-9102.879	-8097.879	1005.0	53719008.264	1068527616.0	627.277
23.0	-9099.683	-8099.683	1000.0	52810937.659	1813778688.0	1064.775
24.0	-9106.657	-8106.657	1000.0	54780124.477	1313835264.0	771.284
25.0	-9104.332	-8104.332	1000.0	54310784.614	1185302016.0	695.829
26.0	-9108.733	-8103.733	1005.0	55320885.624	1237857280.0	726.682
27.0	-9100.248	-8105.248	995.0	52912968.064	1557121536.0	914.105
28.0	-9099.934	-8104.934	995.0	52617079.89	1498018560.0	879.409
29.0	-9106.554	-8096.554	1010.0	55065809.611	1545895424.0	907.515
30.0	-9103.392	-8103.392	1000.0	54116926.844	1539482880.0	903.75
31.0	-9103.032	-8103.032	1000.0	53882256.913	2161992448.0	1269.193
32.0	-9105.203	-8100.203	1005.0	54372002.857	1199378432.0	704.093
33.0	-9105.829	-8100.829	1005.0	54565860.626	1155744000.0	678.477
34.0	-9098.226	-8103.226	995.0	52280379.553	987190784.0	579.528
35.0	-9098.535	-8098.535	1000.0	52739516.376	1581828864.0	928.609
36.0	-9100.291	-8100.291	1000.0	52719110.295	1781707776.0	1045.948
37.0	-9102.863	-8097.863	1005.0	53790429.548	1314439680.0	771.639
38.0	-9109.702	-8104.702	1005.0	55555555.556	1024959744.0	601.701
39.0	-9093.956	-8093.956	1000.0	51229466.381	970981120.0	570.013
40.0	-9104.776	-8099.776	1005.0	54065911.642	1631238400.0	957.615



Realization	SpillDepth(ft)	CrestDepth(ft)	Thickness(ft)	Area(m2)	GRV(m3)	STOOIP(MMbbls)
41.0	-9108.155	-8103.155	1005.0	55024997.449	1685519104.0	989.481
42.0	-9093.946	-8098.946	995.0	51229466.381	1527387648.0	896.65
43.0	-9110.408	-8100.408	1010.0	56361595.756	1110263552.0	651.778
44.0	-9103.274	-8098.274	1005.0	54014896.439	1462776320.0	858.72
45.0	-9099.028	-8099.028	1000.0	52545658.606	1387694080.0	814.643
46.0	-9100.169	-8100.169	1000.0	52974186.308	1434146816.0	841.913
47.0	-9105.899	-8100.899	1005.0	54443424.14	1719316480.0	1009.321
48.0	-9105.113	-8100.113	1005.0	54412815.019	1467490304.0	861.487
49.0	-9102.45	-8102.45	1000.0	53759820.426	1636278528.0	960.574
50.0	-9100.869	-8095.869	1005.0	53372104.887	1378017792.0	808.963

Structural Uncertainty Evaluation — Parameters and Configuration

Input & Realizations

- Surface: Synthetic TWT Input
- Number of realizations: 50
- Velocity Std. Dev. (ft/s): 3.937
- Smoothing sigma: 2.0
- Section/Cut angle (°): 0
- Torch acceleration enabled: True
- Contour step (spill search, ft): 5

Variogram

- Model type: Gaussian
- Range (m): 1500
- Sill: 1.0
- Nugget: 0.0

Volumetrics

- Thickness mean (m): 102
- Thickness std. dev. (m): 37
- N/G: 0.8
- Porosity: 0.2
- Water saturation (Sw): 0.3
- FVF: 1.2

Equations

- $\text{Depth} = \text{TWT} \times \text{AV} / 2000$ (with current unit selections)
- $\text{STOOIP} = (\text{GRV} \times \text{N/G} \times \Phi \times (1 - \text{Sw})) / \text{FVF}$