

Play: 5504 **Pennsylvanian-Permian Structural**
Province: 55 **Nemaha Uplift**
Geologist: Charpentier, R.R. **Status:** confirmed

Play Attributes:	<u>Probability of Occurrence</u>
Charge	1.00
Reservoir rock	1.00
Traps	1.00
Play Probability	1.00

Size of Undiscovered Accumulations (>1 MMBOE) (Conditional):

	<u>Oil Accumulations</u>	<u>Gas Accumulations</u>
Median	3 MMBO	10 BCFG
F5 of Largest Accumulat	16 MMBO	100 BCFG
TSP Shape Factor	3	5
Mean (calculated)	4.1 MMBO	14.4 BCFG

Number of Undiscovered Accumulations (>1 MMBOE) (Conditional):

	<u>Oil Accumulations</u>	<u>Gas Accumulations</u>
Minimum	1	1
Median	4	3
Maximum	10	8
Mean (calculated)	4.6	3.6

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Ratio of Associated-Dissolved Gas to Oil: 3,600 CFG/bbl

Ratio of NGL to Non-Associated Gas: 28 bbl/MMCF

Ratio of NGL to Associated-Dissolved Gas: 70 bbl/MMCF

API Gravity (degrees): minimum mean maximum
30.0 40.0 50.0

Depth of Oil Accumulations (ft): minimum median maximum
1,000 4,000 8,000

Depth of N-A Gas Accumulations (ft): minimum median maximum
1,000 5,000 8,000

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Estimated Resources:

Oil (MMBO)

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
1.30	2.80	8.90	16.60	26.90	42.50	53.10	18.80	12.50

NGL (MMBNGL)

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
0.50	0.93	2.88	5.38	8.86	14.29	18.26	6.20	4.23

Associated-Dissolved Gas (BCFG)

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
4.68	10.08	32.04	59.76	96.84	153.00	191.16	67.60	45.00

Non-Associated Gas (BCFG)

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
6.30	8.10	22.60	42.70	74.50	127.90	174.10	52.60	38.60