

Play:	6307	Northern Niagaran Reef		
Province:	63	Michigan Basin		
Geologist:	Dolton, G.L.		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	2 MMBO	9 BCFG
F5 of Largest Accumulat	10 MMBO	50 BCFG
TSP Shape Factor	3	4
Mean (calculated)	2.5 MMBO	10.4 BCFG

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

	<u>Oil Accumulations</u>	<u>Gas Accumulations</u>
Minimum	15	7
Median	30	15
Maximum	60	30
Mean (calculated)	33.1	16.5

Play:	6307	Northern Niagaran Reef		
Province:	63	Michigan Basin		
Geologist:	Dolton, G.L.		Status:	confirmed

Ratio of Associated-Dissolved Gas to Oil: 2,000 CFG/bbl

Ratio of NGL to Non-Associated Gas: 75 bbl/MMCF

Ratio of NGL to Associated-Dissolved Gas: 95 bbl/MMCF

API Gravity (degrees):	<u>minimum</u>	<u>mean</u>	<u>maximum</u>
	38.0	43.0	50.0

Depth of Oil Accumulations (ft):	<u>minimum</u>	<u>median</u>	<u>maximum</u>
	3,000	5,500	7,200

Depth of N-A Gas Accumulations (ft):	<u>minimum</u>	<u>median</u>	<u>maximum</u>
	3,400	6,000	7,500

Play: 6307 Northern Niagaran Reef

Province: 63 Michigan Basin

Geologist: Dolton, G.L.

Status: confirmed

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>
2.10	7.30	24.40	41.20	70.10	105.40	121.70	83.70	31.10

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>
0.92	2.68	8.94	15.07	25.09	37.37	43.08	28.70	10.99

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>
4.20	14.60	48.80	82.40	140.20	210.80	243.40	167.30	62.20

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>
6.90	17.20	57.40	96.50	157.00	231.20	266.10	171.30	67.70