



Testimony of Lynn D. Helms
Director, North Dakota Industrial Commission Department of Mineral Resources
April 3, 2023
Senate Appropriations - Education and Environment Division
HB 1014 - SB 2089

January 2023 statewide Production

32,881,946 BO produced
87,871,026 MCF produced
4,786,739 MCF flared
17,269 wells
61 BOPD per well
164 MCFD per well
2,672 Gas Oil Ratio

40 CTB tank vapor capture projects (\$3 million / \$75,000 state share per installation)

NDDEQ 2011 Emissions Permitting Guide

2,900 CTB
17,269 wells
6.0 wells per CTB
370 BOPD per CTB
40 MCFD tank vapors per CTB
1,600 MCFD tank vapors captured
600 BOPD incremental production
\$150,000 CAPEX (\$75,000 state share per installation)
437,074 BO per Biennium = \$2,884,686 GPT+OET
1,168,000 MCF per Biennium = \$105,704 GPT
= \$2,990,390 GPT+OET

Statewide +4.1% gas capture

24 well pad gas storage projects (\$3 million / \$125,000 state share per installation)

Based on case 29069

6.0 wells/pad
307 BOPD/pad
820 MCFD/pad
570 CFM/pad
1,500 psi = 166 HP
\$250,000 CAPEX (\$125,000 state share per installation)
7% midstream downtime, but wells not shut in
448,440 BO per Biennium = \$2,959,704 GPT+OET
994,694 MCF per Biennium = \$90,020 GPT
= \$3,049,724 GPT+OET

Statewide +5.8% gas capture

Thank you for your time and consideration,

Lynn D. Helms, PhD

Bruce E. Hicks
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