

Summary Sheet Key

This key is to be used to assist operators in completing the summary spreadsheet supplied by the Department. Use columns “m” through “t” for Bakken wells only. Oil from other formations does not have similar flashing characteristics. Do not use this summary spreadsheet as a replacement for initial well notification. Initial well registration is still required for all new oil and gas facilities. This summary spreadsheet is an opportunity for operators to demonstrate that all their wells have been inventoried, evaluated for VOC emissions, and account for possible control equipment upgrades. Forms and information can be found at: <http://www.ndhealth.gov/AQ/OilAndGasWells.htm>. Submit information about each individual well, and not the combination of all wells on the same site.

Note: In general, use the same data and formats that were submitted to the North Dakota Industrial Commission (when referencing dates and quantities). Use the date format Month/Day/Year. Unless specified, for inputs and calculations, use information about equipment and controls on each well as of the date the spreadsheet was populated.

<u>Column</u>	<u>Information</u>
a	The date that the calculations to complete this sheet were performed
b	NDIC permit #
c	Well name
d	Current operator (who is submitting the information)
e	Operator who completed and submitted original registration of well
f	Field where the well is located
g	Latitude of wellhead
h	Longitude of wellhead
i	Well gas percentage of H ₂ S
j	Number of wells at the site (for multi-well pads only)
k	NDIC Permit # of other wells on site, separate by a comma (for multi-well pads only)
l	First date of production (registration due within 90 days)
m	Date the wellhead gas was tied into a gas line
n	If no sales line, list type of control device used on heater treater-if none, list none
o	Number of produced water and oil tanks on site
p	Are the tanks in item “o” tied into a control device(s)
q	Current control device on tanks
r	Manufacturer of item "p" (if unknown, list shop-built)
s	Produced BOPD (barrels of oil per day) for the well. Calculate using the following:
	<12 months old: What is the average BOPD for the last 3 producing months, do not include downtime.
	>12 months & <18 months old: What is the average BOPD for the last 6 producing months, do not include downtime.

>18 months old: What is the average BOPD for the last 12 producing months, include downtime

Note: these adjustments are made to reflect difficult winter and spring conditions that may result in wells being shut-in. If no adjustments were made, inaccurate predictions in flow estimates could occur.

t Estimated Tons per Year (TPY) VOC emissions. Calculate using the Bakken Guidance Document and substitute the following for inputs:

<18 months old: Use the value at “s” for input on line 4. Use 0.6 as decline curve input.

>18 months old: Use the value at “s” for input on line 4. Use 1 as decline curve input.