

DRAFT FOR DISCUSSION PURPOSES ONLY

September 14, 2005

TEAM 1 – DATA ACQUISITION

Subcommittee Members:

David P. Williams, KCC, chair

Honorable Carl D. Holmes, Kansas Legislature

Kenneth S. White, KIOGA Representative

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BACKGROUND

On March 1, 2005, the Kansas Corporation Commission held a meeting to “facilitate a working group in an effort to define the extent of Hugoton field operational issues that impact the natural gas supply in rural areas of Southwestern Kansas.” From this meeting, Team 1 was ask to acquire data concerning this issue from operators and gas gatherers from their wells and systems.

On March 31, the KCC identified and sent 271 letter requests for well information on wells and gathering systems that had sold gas as reported to the Kansas Department of Revenue (KDOR) in the 10 counties in southwestern Kansas within the past two years. Contained in this letter was a deadline for submission the to operators and gatherer’s requested information by April 15, 2005.

A second notice of violation (NOV) letter was sent to operators and gatherers that had not complied with the first requested letter and to date, the KCC has received responses from a total of 254 operators and gas gatherers. This represents 93.7 % compliance rate.

Using an Excel spreadsheet and incorporating it on the KCC website for use by all operators and gas gatherers, staff was able to establish several data sets. They are presently identified as follows:

- 1) The first set combines 149 operator well records into a single data file that presently contains 11,499 wells;
- 2) A second data set submitted is from 19 gas gatherer’s has approximately 15,364 individual sampling data points.
* One should note that these data sets may change daily upon the submittal of additional well and gathering system data from late submissions.

METHODOLOGY

After an attempt to compile these data sets into two files, one for the operators wells and one for the gas gatherers sample points, staff has identified and has listed certain areas of H₂S concentrations and the respective gathering system working

pressures, as well as certain formation that may contain H₂S. It is anticipated that this data will be incorporated into a mapping package for later use by the total committee.

Attached are several preliminary graphs of data associated with the KCC request for information. These are listed below as:

- 1) All wells as reported by the operators with the H₂S concentration range;
- 2) All sampling points as reported by the gas gatherers with the H₂S concentration range;
- 3) All wells as reported by the operator with the H₂S concentration range from all producing formations or groups;
- 4) Wells as reported by the operator with the H₂S concentration range from the Chase Group, Council Grove Group and Topeka Formation;
- 5) Wells as reported by the operator with the H₂S concentration range from the Marmaton, Morrow, Keyes, Chester, and Mississippian formations;
- 6) Formation and well data table as used with Charts 3, 4, and 5.

PRELIMINARY SUMMARY

The following table illustrates the range of H₂S sampling as submitted by the operators and gas gatherers:

Reports from Gas Gatherers (Gathering Points)

H ₂ S Concentration Reported	
H ₂ S Concentration Reported	Number of Gathering / System Points
0 PPM H ₂ S	4,558
≥ 1 < 30 PPM H ₂ S	8,190
> 31 PPM <500 H ₂ S	161
No Report	2,455
Total	15,364

Reports from Operators (Wells)

H ₂ S Concentration Reported	
H ₂ S Concentration Reported	Number of Wells
0 PPM H ₂ S	4,914
≥ 1 ≤ 30 PPM H ₂ S	4,275
≥ 31 ≤ 50 PPM H ₂ S	76
≥ 51 ≤ 99 PPM H ₂ S	33
≥ 100 ≤ 1550 PPM H ₂ S	47
No Report	2,154
Total *	11,499

* Of the total wells as reported 719 are under some form of H₂S treatment.

