ANALYSIS OF CHEROKEE GROUP CUTTINGS SAMPLES FOR GAS CONTENT -- DART CHEROKEE BASIN OPERATING COMPANY #A3-36 FIELDS; NW NE sec. 36-T.34S.-R.14E.; MONTGOMERY COUNTY, KANSAS

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SUMMARY

Seven cuttings samples from the Pennsylvanian Cherokee Group were collected from the Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS. The samples calculate as having the following gas contents:

- Excello Shale at 1040' to 1051' depth¹ •
- Iron Post at 1072' to 1074' depth² •
- Croweburg coal at 1108' to 1110' $depth^2$
- Mineral coal at 1158' to 1161' depth² •
- Weir-Pittsburg coal at 1237' to 1239' depth²
- Rowe coal at 1475' to 1478' depth²
- Riverton coal at 1498' to 1502' depth² •

¹no coal in sample

²assuming accompanying dark shales in sample desorb 3 scf/ton

BACKGROUND

The Dart Cherokee Basin #A3-36 Fields, 36-T.34S.-R.14E., Montgomery County, KS, was selected for cuttings desorption tests in association with an on-going coalbed gas research project at the Kansas Geological Survey. The samples were gathered March 10, 2005 by personnel from Dart Cherokee Basin L.L.C., and turned over to LeaAnn Davidson of the Kansas Geological Survey on March 14, 2005. Samples were obtained during normal drilling of the well, with no cessation of drilling before zones of interest (i.e., coals and dark shales in the Cherokee Group) were penetrated. The well was drilled using an air rotary rig owned by McPherson Drilling.

The samples were canistered, with surface time and canistering times noted. These samples were collected in canisters that were supplied by Dart Cherokee Basin L.L.C. and the Kansas Geological Survey. Lag times for samples to reach the surface (important for assessing lost gas) were determined by using the lag times from a nearby air-drilled well (Dart Cherokee Basin #CH-1 Holder; sec. 1-T.30S.-R.14E., Wilson County, KS), which was also drilled using this particular drilling rig. The lag times were determined by periodically noting the time it took for cuttings to reach the surface following resumption of drilling after new pipe was added to the drill string.

Seven cuttings samples from the Pennsylvanian Cherokee Groups were collected:

- Excello Shale at 1040' to 1051' depth •
- Iron Post at 1072' to 1074' depth •
- Croweburg coal at 1108' to 1110' depth
- Mineral coal at 1158' to 1161' depth
- Weir-Pittsburg coal at 1237' to 1239' depth
- Rowe coal at 1475' to 1478' depth •
- Riverton coal at 1498' to 1502' depth

- (315 grams dry wt.)
- (2240 grams dry wt.)
- (1190 grams dry wt.)
- (1684 grams dry wt.) (391 grams dry wt.)

(11 scf/ton)

(74 scf/ton)

(127 scf/ton)

(122 scf/ton)

(138 scf/ton)

(245 scf/ton)

(170 scf/ton)

- (322 grams dry wt.)
- (935 grams dry wt.)

The cuttings were caught in kitchen strainers as they exited the air-stream pipe emptying to the mud pit. The samples were then washed in water while in the kitchen strainers to rid them of as much drilling mud as possible before the cuttings were placed in desorption canisters. Water with zephyrn chloride biocide was then added to the canisters, with a headspace of 1 to 2 inches being preserved at the top of the canister.

All samples were transported March 14th to the laboratory at the Kansas Geological Survey in Lawrence, KS and desorption measurements were continued at approximately 70 °F. Desorption measurements were periodically made until the canisters produced negligible gas with daily testing for at least two successive days.

DESORPTION MEASUREMENTS

The equipment and method for measuring desorption gas is that prescribed by McLennan and others (1995). The volumetric displacement apparatus is a set of connected dispensing burettes, one of which measures the gas evolved from the desorption canister. The other burette compensates for the compression that occurs when the desorbed gas displaces the water in the measuring burette. This compensation is performed by adjusting the cylinders so that their water levels are identical, then figuring the amount of gas that evolved by reading the difference in water level using the volumetric scale on the side of the burette.

The desorption canisters were obtained from SSD, Inc. in Grand Junction, CO. These canisters are 12.5 inches high (32 cm), 3 1/2 inches (9 cm) in diameter, and enclose a volume of approximately 150 cubic inches (2450 cm³). The desorbed gas that collected in the desorption canisters was periodically released into the volumetric displacement apparatus and measured as a function of time, temperature, and atmospheric pressure.

The time and atmospheric pressure were measured in the field using a portable weather station (model BA928) marketed by Oregon Scientific (Tualatin, OR). The atmospheric pressure was displayed in millibars on this instrument, however, this measurement was not the actual barometric pressure, but rather an altitude-compensated barometric pressure automatically converted to a sea-level-equivalent pressure. In order to translate this measurement to actual atmospheric pressure, a regression correlation was determined over several weeks by comparing readings from the Oregon Scientific instrument to that from a pressure transducer in the Petrophysics Laboratory in the Kansas Geological Survey (Figure 1). The regression equation shown graphically in Figure 1 was entered into a spreadsheet and was used to automatically convert the millibar measurement to barometric pressure in pounds per square inch (psi).

A spreadsheet program written by K.D. Newell (Kansas Geological Survey) was used to convert all gas volumes at standard temperature and pressure. Conversion of gas volumes to standard temperature and pressure was by application of the perfect-gas equation, obtainable from basic college chemistry texts:

n = PV/RT

where n is moles of gas, T is degrees Kelvin (i.e., absolute temperature), V is in liters, and R is the universal gas constant, which has a numerical value depending on the units in which it is measured (for example, in the metric system R = 0.0820 liter atmosphere per degree mole). The number of moles of gas (i.e., the value n) is constant in a volumetric conversion, therefore the conversion equation, derived from the ideal gas equation, is:

 $(P_{stp}V_{stp})/(RT_{stp}) = (P_{rig}V_{rig})/(RT_{rig})$

Customarily, standard temperature and pressure for gas volumetric measurements in the oil industry are 60 °F and 14.7 psi (see Dake, 1978, p. 13), therefore P_{stp} , V_{stp} , and T_{stp} , respectively, are pressure, volume, and temperature at standard temperature and pressure, where standard temperature is degrees Rankine (°R = 460 + °F). P_{rig} , V_{rig} , and T_{rig} , respectively, are ambient pressure, volume, and temperature measurements taken at the rig site or in the desorption laboratory.

The universal gas constant R drops out as this equation is simplified and the determination of Vstp becomes:

 $V_{stp} = (T_{stp}/T_{rig}) (P_{rig}/P_{stp}) V_{rig}$

The conversion calculations in the spreadsheet were carried out in the English metric system, as this is the customary measure system used in American coal and oil industry. V is therefore converted to cubic feet; P is psia; T is °R.

The desorbed gas was summed over the time period for which the coal samples evolved all of their gas.

Lost gas for samples (i.e., the gas lost from the sample from the time it was drilled, brought to the surface, to the time it was canistered) are normally determined using the direct method (Kissel and others, 1975; also see McLennan and others, 1995, p. 6.1-6.14) in which the cumulative gas evolved is plotted against the square root of elapsed time. Time zero is assumed to be the moment that the rock is cut and its cuttings circulated off bottom. Lost gas, however, had to be inferred for the samples collected from this well because no desorption apparatus was on site when those samples were collected. The procedure used to infer lost gas for these samples is outlined in the section below on Lost Gas.

LITHOLOGIC ANALYSIS

Upon removal from the canisters, the cuttings were washed of drilling mud, and dried in an oven at 150 °F for 1 to 3 days. After drying, the cuttings were weighed and then dry sieved into 5 size fractions: >0.0930", >0.0661", >0.0460", >0.0331", and <0.0331". For

large sample sizes, the cuttings were ran through a sample splitter and a lesser portion (approximately 75 grams) was sieved and weighed, and the derived size-fraction ratios were applied to the entire sample.

The size fractions were then inspected and sorted by hand under a dissecting microscope. Three major lithologic categories were differentiated: coal, dark shales (generally Munsell rock colors N3 (dark gray), N2 (grayish black), and N1 (black) on dry surface), and lighter-colored lithologies and/or dark and light-colored carbonates. The lightercolored lithologies are considered to be incapable of generating significant amounts of gas. After sorting, and for every size class, each of these three lithologic categories was weighed and the proportion of coal, dark shale, and light-colored lithologies were determined for the entire cuttings sample based on the weight percentages.

DATA PRESENTATION

Data and analyses accompanying this report are presented in the following order: 1) lag time to surface for the well cuttings, 2) data tables for the desorption analyses, 3) lost-gas graphs, 4) "lithologic component sensitivity analyses" showing the interdependence of gas evolved from dark shale versus coal in each sample, 5) a summary component analysis for all samples showing relative reliability of the data from all the samples, and 6) a desorption graph for all the samples.

Graph of Lag-time to Surface for Well Cuttings (Figure 2)

Lag time of cuttings to surface varied, but there is a general trend of longer lag times for greater depth. The lag times accepted for cuttings were taken to be a visual average of the trend (defined by the scatter of data points on this graph) at the depth at which the samples were taken.

Data Tables of the Desorption Analyses (Table 1)

These are the basic data used for lost-gas analysis and determination of total gas desorbed from the cuttings samples. Basic temperature, volume, and barometric measurements are listed at left. Farther to the right, these are converted to standard temperature, pressure, and volumes. The volumes are cumulatively summed, and converted to scf/ton based on the total weight of coal and dark shale in the sample. At the right of the table, the time of the measurements are listed and converted to hours (and square root of hours) since the sample was drilled.

Lost-Gas Graphs (Figure 3)

To infer an approximate lost-gas value for each sample, a correlation of the total gas desorbed from a sample after it had been canistered to its rate of lost gas was developed using desorption data accumulated for 42 cuttings samples obtained from air-drilled wells in the Cherokee basin in southeastern Kansas (Figure 3). The rate of lost gas used in this correlation was that amount of gas lost by the square root of 0.6 hours (the square root of 0.36 hours). By knowing the total gas given up by the sample after canistering (i.e., the

total gas desorbed) a hypothetical rate of lost-gas could be calculated using the a regression line:

lost gas rate per square root of 0.36 hours = 0.1241 X (total gas desorbed in ccs) + 48.14

Once the hypothetical lost-gas rate was calculated, the lost gas could be calculated by taking the square root of the bottom-hole to canister time (derived from subtracting the lag time from the surface time), and multiplying it times the hypothetical lost-gas rate. Analysis of the lithology of the cuttings used in this correlation revealed no consistent relationship (see Figure 3), therefore further refinement of the relationship of the rate of lost gas to the total gas desorbed after canistering is not possible at this time.

"Lithologic Component Sensitivity Analyses" (Figures 4-10)

The rapidity of penetration of an air-drilled well makes collection of pure lithologies from relatively thin-bedded strata difficult. Mixed lithologies are more the norm than the exception. Some of this mixing is due to cavings from strata farther up hole. The mixing may also be due to collection of two or more successively drilled lithologies in the kitchen sieve at the exit line, or differential lifting of relatively less-dense coal compared to other lithologies, all of which are more dense than coal.

The total gas evolved from the sample is due to gas being desorbed from both the coal and dark shale. Both lithologies are capable of generating gas, albeit the coal will be richer in gas than the dark-colored shale. Even though dark-colored shale is less rich in sorbed gas than coal, if a sample has a large proportion of dark, organic-rich shale and only a minor amount of coal, the total volume of gas evolved from the dark-shale component may be considerable. The lighter-colored lithologies are considered to be incapable of generating significant amounts of gas.

The total amount of gas evolved from a cuttings sample can be expressed by the following equation:

Total gas (cm³) = [weight_{coal} (grams) X gas content_{coal} (cm³/gram)] + [weight_{dark shale} (grams) X gas content_{dark shale} (cm³/gram)]

A unique solution for gas $content_{coal}$ in this equation is not possible because gas $content_{dark \ shale}$ is not known exactly. An answer can only be expressed as a linear solution to the above equation. The richer in gas the dark shales are, the poorer in gas the admixed coal has to be, and visa versa. If there is little dark shale in a sample, a relatively well constrained answer for gas $content_{coal}$ can be obtained. Conversely, if considerable dark shale is in a sample, the gas $content \ of a \ coal \ will \ be \ hard \ to \ precisely \ determine.$

The lithologic-component-sensitivity-analysis diagram therefore expresses the bivariant nature inherent in the determination of gas content in mixed cuttings. The gas content of dark shales in Kansas can vary greatly. Proprietary desorption analyses of dark shales in cores from southeastern Kansas have registered as much as 50 scf/ton, but can be as low as 2-4 scf/ton.

A value of 3 scf/ton for average dark shale is based on the assay of the gas content of cores of dark shales in nearby wells. However, high-gamma-ray shales (such as the Excello Shale), also colloquially known as "hot shales", typically have more organic matter and associated gas content than dark shales with no excessive gamma-ray level. Determination of gas content for a coal associated with a "hot" shale therefore carries more uncertainty than if the coal were associated with a shale without a high gamma-ray value.

In general, shale gas content does not have to be very much greater that 10 scf/ton before the associated coal starts to have a gas content less than that of the dark shale. In all the lithologic-component-sensitivity-analysis diagrams, a "break-even" point is therefore noted where the gas content of the coal is equal to that of the dark shale. This "breakeven" point corresponds to the minimum gas content assignable to the coal and maximum gas content assignable to the dark shale. It can also be thought of the scf/ton gas content of the cuttings sample minus the weight of any of the lighter-colored lithologies, which are assumed to have no inherent gas content. Conversely though, to assume that all the gas evolved from a cuttings sample is derived solely from the coal would result in an erroneously high gas content for the coal.

Summary Component Analysis for all Samples (Figure 11)

This diagram is a summary of the individual "lithologic component sensitivity analyses" for each sample, all set at a common scale. The steeper the angle of the line for a sample, the more uncertainty is attached to the results (i.e., *gas content_{coal}*) for that sample. If the coal content is miniscule (i.e., < approximately 5%), the results are a better reflection of the *gas content_{dark shale}*.

Desorption Graph (Figure 12)

This is a desorption graph (gas content per weight vs. square root of time) for all the samples. The rate at which gas is evolved from the samples is thus comparable at a common scale. The final value represents the standard cubic feet of gas per ton (scf/ton) calculated for the sample, using the combined weight of the coal and dark shale in the sample.

RESULTS and DISCUSSION

The Excello Shale sample at 1041'-1051' contained no coal, hence the Mulky coal, which underlies the Excello Shale, was likely not developed at this locality.

The best constrained data are those associated with the Iron Post (1072'-1074') and Weir-Pittsburg samples (1186'-1189'). The least constrained data are associated with the Rowe coal (1475'-1478'). Nevertheless, the desorption was very long-lived for this sample. All

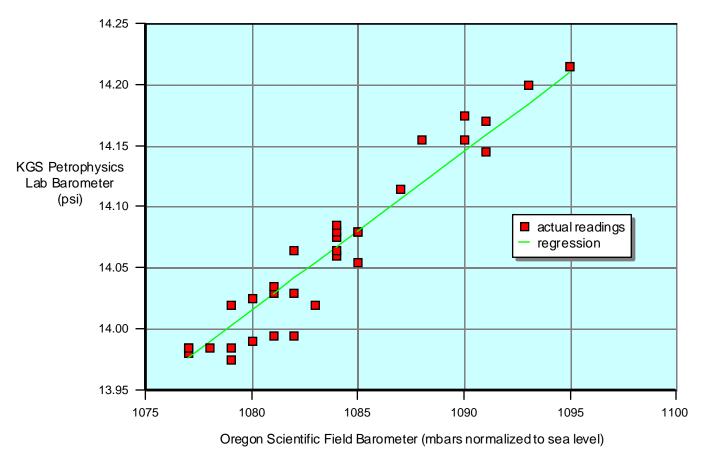
samples contained amounts of coal that are reasonable for determination of gas content, with assumption that the accompanying shales desorb 3 scf/ton.

REFERENCES

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- Kissel, F.N., McCulloch, C.M., and Elder, C.H., 1975, The direct method of determining methane content of coals for ventilation design: U.S. Bureau of Mines, Report of Investigations, RI7767.
- McLennan, J.D., Schafer, P.S., and Pratt, T.J., 1995, A guide to determining coalbed gas content: Gas Research Institute, Chicago, IL, Reference No. GRI-94/0396, 180 p.

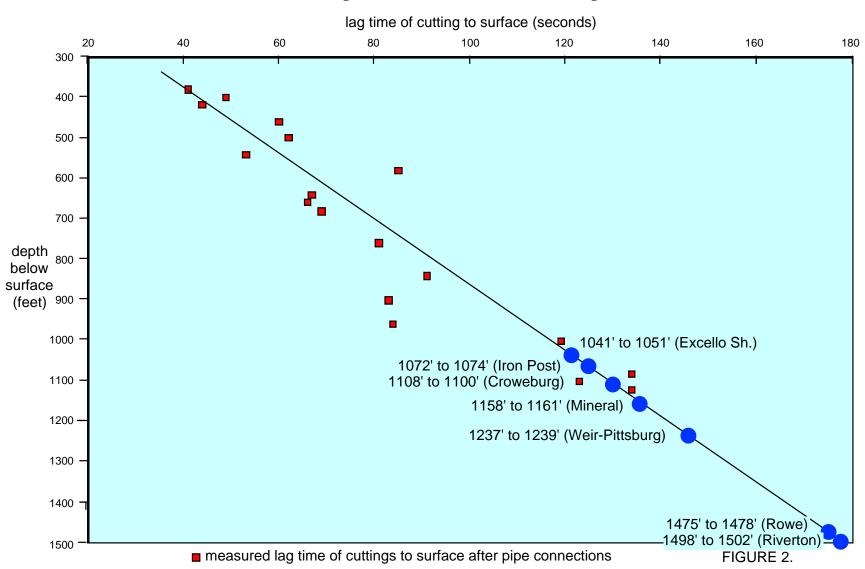
FIGURES and TABLES

- FIGURE 1. Correlation of field barometer to Petrophysics Lab pressure transducer.
- FIGURE 2. Lag-time to surface for well cuttings.
- TABLE 1. Desorption measurements for samples.
- FIGURE 3. Correlation of the rate of lost gas to the total gas desorbed after canistering.
- FIGURE 4. Sensitivity analysis for Excello Shale at 1040' to 1051' depth.
- FIGURE 5. Sensitivity analysis for Iron Post at 1072' to 1074' depth.
- FIGURE 6. Sensitivity analysis for Croweburg coal at 1108' to 1110' depth.
- FIGURE 7. Sensitivity analysis for Mineral coal at 1158' to 1161' depth.
- FIGURE 8. Sensitivity analysis for Weir-Pittsburg coal at 1237' to 1239' depth.
- FIGURE 9. Sensitivity analysis for Rowe coal at 1475' to 1478' depth.
- FIGURE 10. Sensitivity analysis for Riverton coal at 1498' to 1502' depth.
- FIGURE 11. Lithologic component sensitivity analyses for all samples.
- FIGURE 12. Desorption graph for all samples.

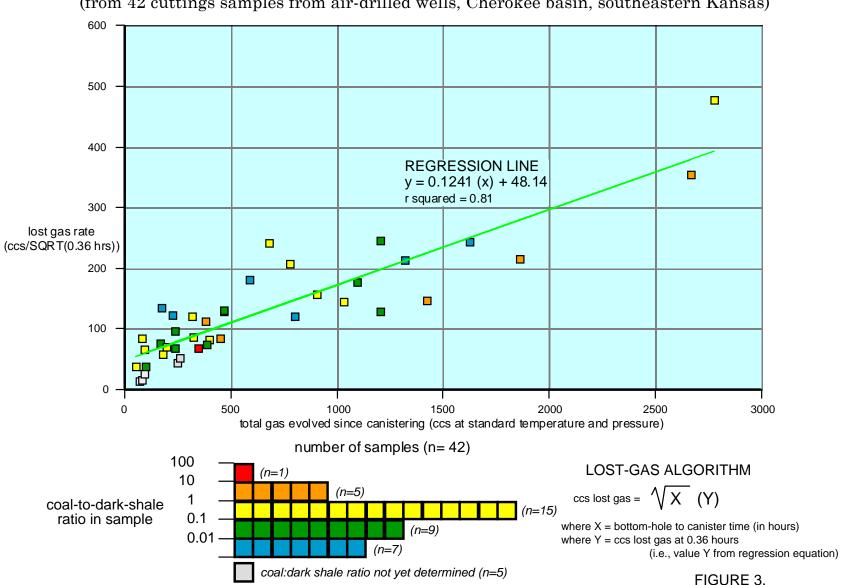


Correlation of Field Barometer to KGS Petrophysics Lab Barometer

FIGURE 1.

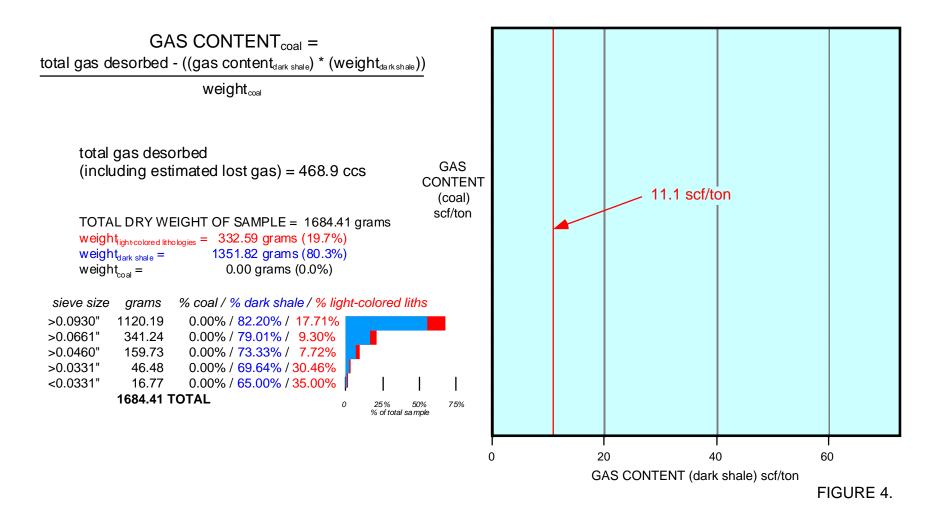


Dart Cherokee Basin #A3-36 Fields, NW NE 36-T.34S.-R.14E., Montgomery County, KS (based on lag times from Dart Cherokee Basin #CH-1 Holder; sec. 1-T.30S.-R.14E., Wilson County, KS lag-time to surface for well cuttings



RELATIONSHIP of TOTAL GAS EVOLVED FROM a CUTTINGS SAMPLE to RATE of LOST-GAS (from 42 cuttings samples from air-drilled wells, Cherokee basin, southeastern Kansas)

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of Excello Shale from 1041' to 1051'



LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Iron Post coal from 1072' to 1074'

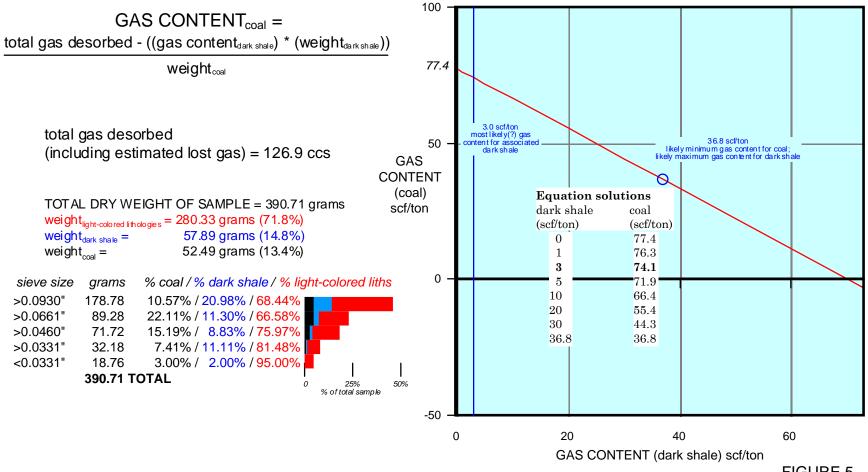
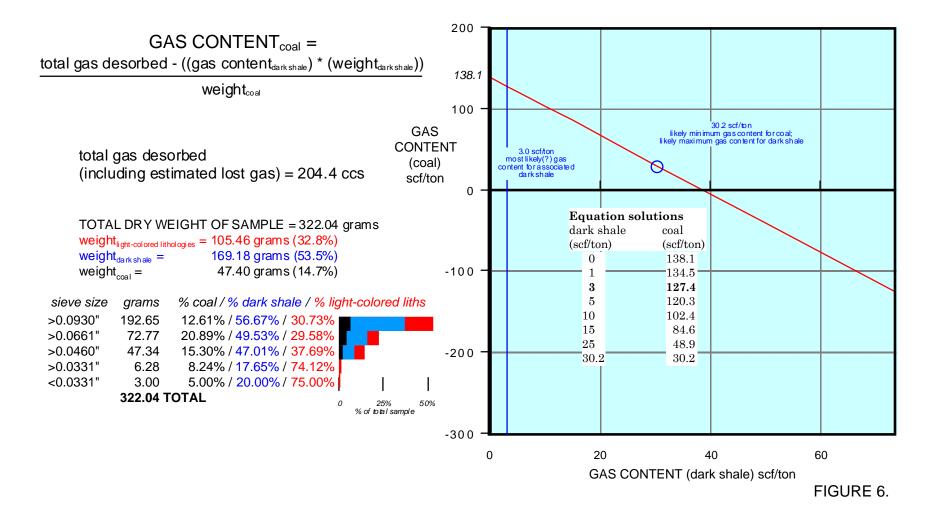
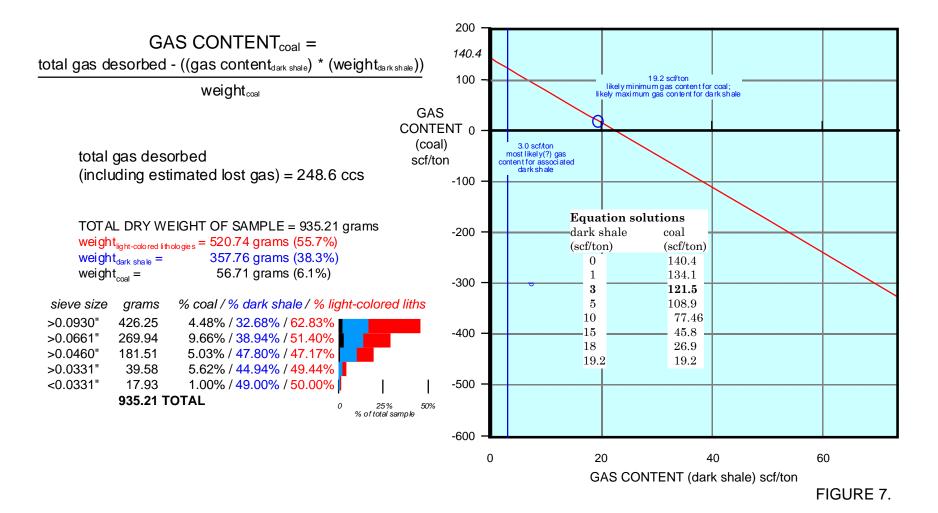


FIGURE 5.

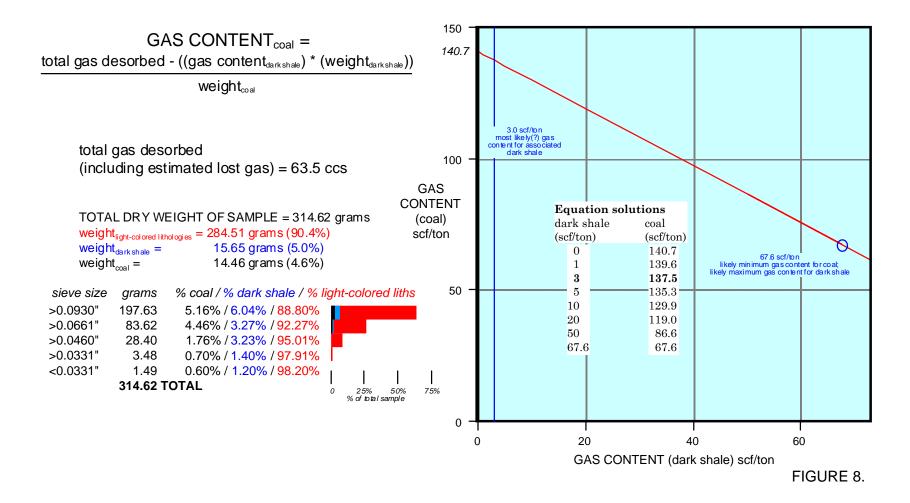
LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Croweburg coal from 1108' to 1110'



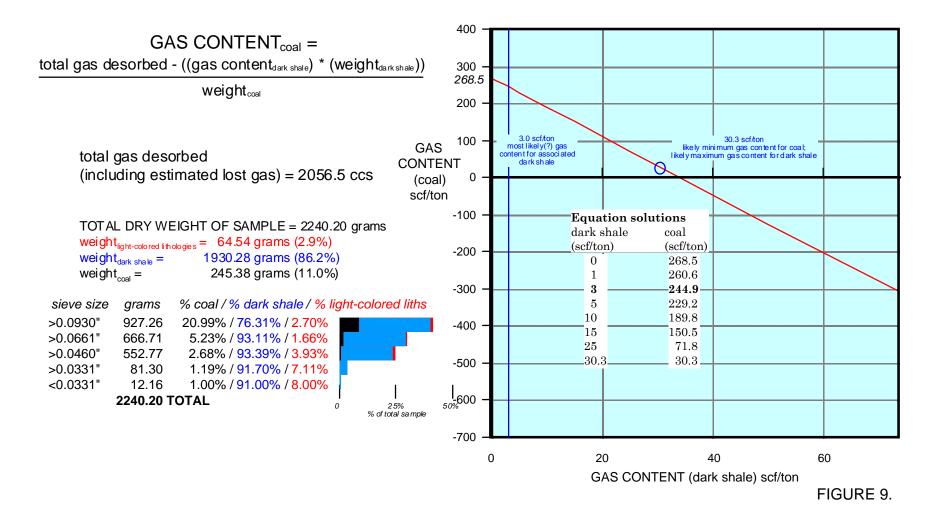
LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Mineral coal from 1158' to 1161'



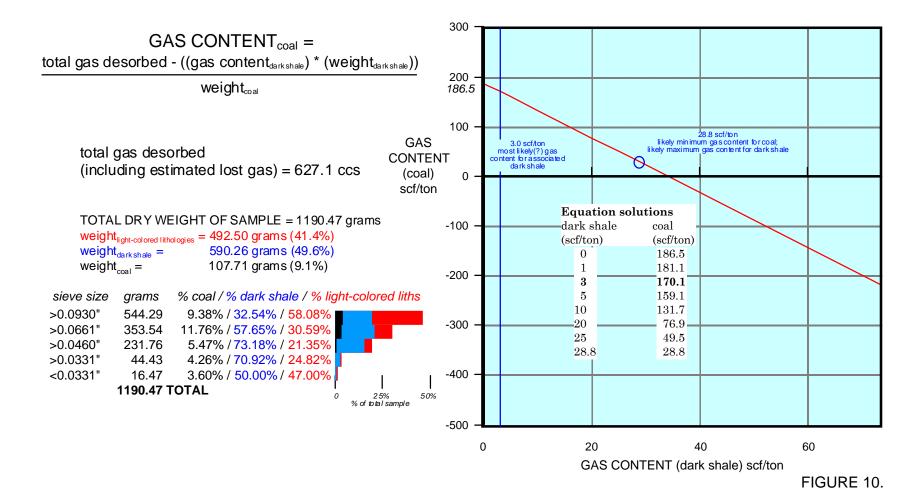
LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Weir-Pittsburg coal from 1237' to 1239'



LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Rowe coal from 1475' to 1478'



LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for calculation of gas content of Riverton coal from 1498' to 1502'

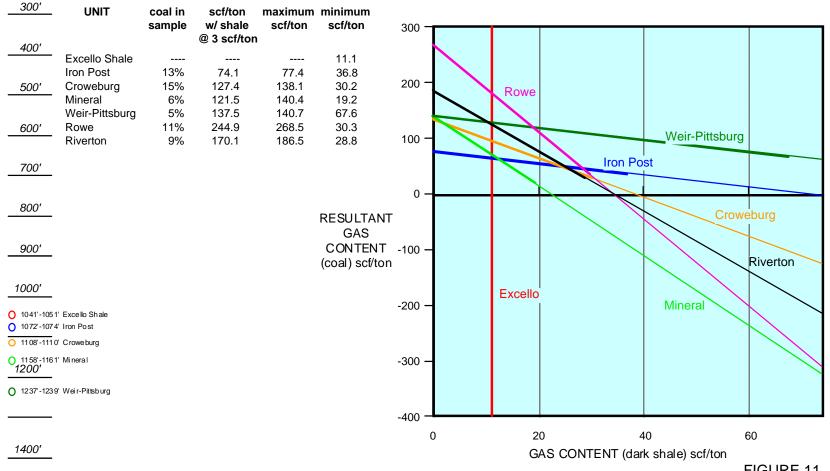




100'

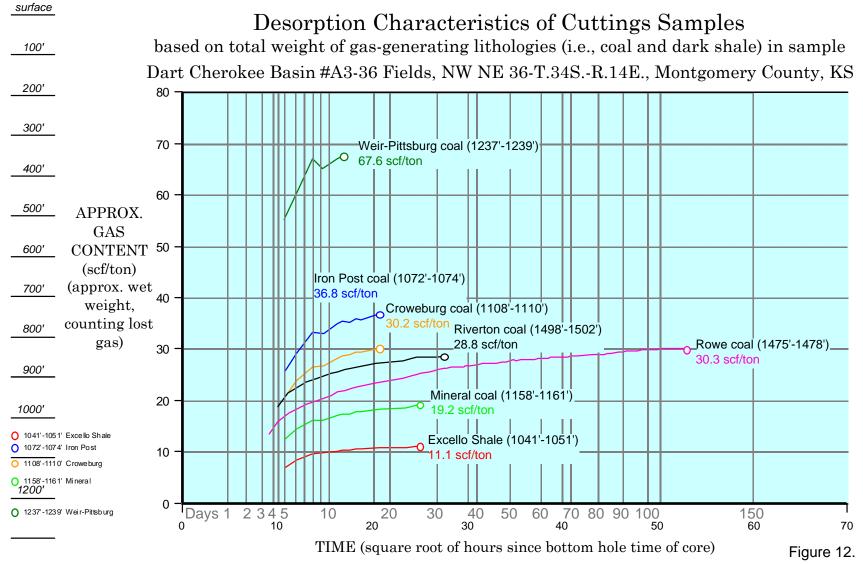
surface

LITHOLOGIC COMPONENT SENSITIVITY ANALYSIS for all samples



0 1475'-1478' Rowe 1498'-1502' Riverton

FIGURE 11.



1400'

0 1475'-1478' Rowe 1498'-1502' Riverton

| ABLE 1 De | esorption data f | or DART CHEF | ROKEE | BASIN FIEL | DS #A3-: | 36; NW NE 36-T.3 | 4SR.14E., Montg | omery Co., KS | | | | | | | | | |
|-------------|---|------------------|----------|---------------|-----------|--------------------|---------------------|----------------|--------------|---------------|----------------------|---------------------|-------------------|---|------------------------|-----------------|---------|
| | · | | | | | | | | | | | | | | | | |
| AMPLE: | 1041' to 1051' | (Excello Shale) | cutting | gs in SSD car | ister 9 | | | | | | NOTE: los gas is e | stimated by time in | terval between at | surface and can | ister times, and total | gas evolved | |
| | | lbs. gra | ms | | | | | | | | est. lost gas (cc) = | TIME OF: | | | elapsed time (off bo | ottom to canist | tering) |
| y sample we | eight: | 2.9803 135 | 51.82 | | | | | | | | 26 | off bottom | at surface | in canister | 3.9 | minutes | |
| | Č | | | | | | | | | | | 3/10/2005 13:27 | 3/10/2005 13:29 | ####################################### | 0.066 | hours | |
| IG/LAB MEA | SUREMENTS | CO | NVER | SION OF RIG | LAB ME | ASUREMENTS T | O STP (@60 deg | CUMULATIVE ' | VOLUMES SC | F/TON | SCF/TON | | TIME SINCE | | 0.256038192 | SQRT (hrs) | |
| | measured T (F | | | absolute T (R | | cubic ft (@STP) c | | cubic ft (@STP | | | | TIME OF MEASU | | in canister | SQRT hrs. (since o | | |
| 288 | 70 | | 0102 | | 14.135 | | 271.70 | 0.00959506 | 271.70 | 6.44 | 7.06 | | | | | | |
| 200 | 70 | | 0023 | | 14.096 | 0.002188681 | 61.98 | 0.011783741 | 333.68 | 7.91 | 8.52 | | 143:15:51 | | 11.96930101 | | |
| 45 | 69 | | | | | | | | | | | | | | 13.75006061 | | |
| | | | 0016 | | 13.901 | 0.001477235 | 41.83 | 0.013260976 | | 8.90 | 9.52 | | | | | | |
| 12 | 68 | | 0004 | 528 | 14.070 | 0.000399466 | 11.31 | 0.013660442 | | 9.17 | 9.78 | | 219:08:51 | 219:04:55 | 14.80363131 | | |
| 17 | 68 | | 0006 | | 13.953 | 0.000561212 | 15.89 | 0.014221654 | 402.71 | 9.54 | 10.16 | | 264:38:51 | 264:34:55 | 16.26799004 | | |
| 7 | 68 | | 0002 | 528 | 13.953 | 0.000231087 | 6.54 | 0.014452741 | | 9.70 | 10.32 | 3/22/2005 9:20 | 283:52:51 | 283:48:55 | 16.84876356 | | |
| 4 | 68 | 1081 0 . | 0001 | 528 | 14.031 | 0.000132787 | 3.76 | 0.014585527 | 413.01 | 9.79 | 10.40 | 3/23/2005 12:46 | 311:18:51 | 311:14:55 | 17.64409722 | | |
| 6 | 70 | 1077 0. | 0002 | 530 | 13.979 | 0.000197694 | 5.60 | 0.014783222 | 418.61 | 9.92 | 10.54 | 3/24/2005 12:32 | 335:04:51 | 335:00:55 | 18.30521328 | | |
| 3 | 69 | | 0001 | 529 | | 9.94938E-05 | 2.82 | 0.014882716 | | 9.99 | 10.60 | 3/25/2005 9:21 | 355:53:51 | 355:49:55 | 18.86524582 | | |
| 11 | 70 | | 0004 | 530 | | 0.000361767 | 10.24 | 0.015244482 | 431.67 | 10.23 | 10.85 | 3/28/2005 9:37 | 428:09:51 | 428:05:55 | 20.69212813 | | |
| 11 | 69 | | | | | | 2.82 | 0.015344482 | 431.67 | 10.23 | 10.85 | 4/2/2005 15:49 | 554:21:51 | 554:17:55 | 23.5449393 | | |
| 3 | | | 0001 | | 14.070 | 9.96777E-05 | | | | | | | | | | | 1 |
| 6 | 69 | | 0002 | | 13.914 | 0.000197149 | 5.58 | 0.015541309 | 440.08 | 10.43 | 11.05 | 4/4/2005 14:13 | 600:45:51 | 600:41:55 | 24.51049095 | | |
| 3 | 70 | | 0001 | 530 | | 9.82965E-05 | 2.78 | 0.015639605 | 442.86 | 10.50 | 11.11 | 4/5/2005 12:12 | 622:44:51 | 622:40:55 | 24.95490934 | | 1 |
| 0 | 71 | 1075 | 0 | | 13.953 | 0 | 0.00 | 0.015639605 | 442.86 | 10.50 | 11.11 | 4/6/2005 9:25 | 643:57:51 | 643:53:55 | 25.37644906 | | |
| -2 | 71 | | 'E-05 | | 14.070 | | -1.87 | 0.015573403 | 440.99 | 10.45 | 11.07 | 4/8/2005 9:22 | 691:54:51 | 691:50:55 | 26.30426138 | | |
| ESORPTION | N TERMINATE | | | | | | ed at 150 degrees I | | | | | | | | | | 1 |
| | | 1 | Î | 1 | 1 | , | | | | | | | | 1 | 1 | | 1 |
| | | | | | | | | | | | | | | | | | 1 |
| AMPLE: | 1072' to 1074' | (Iron Post coal) | outting | | viotor 6 | | | | | | | atimated by time in | torual between of | ourfood and oon | ister times, and total | and evelved | |
| AIVIFLE. | 10/2 10 10/4 | | | ys in SSD cai | lister o | | | | | | | | itervar between a | Surface and can | | | |
| | | lbs. gra | ms | | | | | | | | est. lost gas (cc) = | | | | elapsed time (off bo | | tering) |
| y sample we | eight: | 0.2433 11 | 10.38 | | | | | | | | 15 | off bottom | at surface | in canister | | minutes | |
| | | | | | | | | | | | | 3/10/2005 13:49 | 3/10/2005 13:51 | ####################################### | 0.061 | hours | |
| G/LAB MEA | SUREMENTS | CO | NVER: | SION OF RIG | i/LAB ME | EASUREMENTS T | O STP (@60 deg | CUMULATIVE ' | VOLUMES SC | F/TON | SCF/TON | | TIME SINCE | | 0.247206616 | SQRT (hrs) | |
| easured cc | measured T (F | measured cut | bic ft a | absolute T (R | osia | cubic ft (@STP) c | c (@STP) | cubic ft (@STP | cc (@STP wit | hout lost gas | with lost gas | TIME OF MEASUI | off bottom | in canister | SQRT hrs. (since o | ff bottom) | |
| 78 | 70 | | 0028 | | 14.135 | 0.002598662 | 73.59 | 0.002598662 | 73.59 | 21.36 | 25.71 | | | | 10.85389075 | | |
| 13 | 71 | | 0005 | | 14.096 | 0.000431104 | 12.21 | 0.003029766 | 85.79 | 24.90 | 29.26 | | | | 11.95436926 | | |
| | | | 0005 | | | 0.000492412 | | | | 24.90 | | | 188:42:25 | 188:38:45 | 13.73706462 | | |
| 15 | 69 | | | | 13.901 | | 13.94 | 0.003522178 | 99.74 | | 33.30 | | | | | | |
| -1 | 68 | | E-05 | | 14.070 | -3.32888E-05 | -0.94 | 0.003488889 | 98.79 | 28.67 | 33.03 | 3/19/2005 16:36 | | | 14.79099764 | | |
| 7 | 68 | | 0002 | | 13.953 | 0.000231087 | 6.54 | 0.003719976 | 105.34 | 30.57 | 34.93 | | 264:17:25 | | 16.25700704 | | |
| 2 | 68 | 1075 7 | 'E-05 | 528 | 13.953 | 6.60249E-05 | 1.87 | 0.003786001 | 107.21 | 31.12 | 35.47 | 3/22/2005 9:22 | 283:32:25 | 283:28:45 | 16.83865427 | | |
| -1 | 68 | 1081 -4 | E-05 | 528 | 14.031 | -3.31967E-05 | -0.94 | 0.003752804 | 106.27 | 30.84 | 35.20 | 3/23/2005 12:47 | 310:57:25 | 310:53:45 | 17.63397132 | | |
| 3 | 70 | | 0001 | 530 | | 9.88472E-05 | 2.80 | 0.003851651 | 109.07 | 31.66 | 36.01 | 3/24/2005 12:33 | 334:43:25 | 334:39:45 | 18.29545329 | | |
| -1 | 69 | 1082 -4 | E-05 | 529 | 14.044 | -3.31646E-05 | -0.94 | 0.003818487 | 108.13 | 31.38 | 35.74 | 3/25/2005 9:21 | 355:31:25 | | 18.85533376 | | |
| 4 | 70 | | 0001 | | 13.953 | 0.000131551 | 3.73 | 0.003950038 | 111.85 | 32.46 | 36.82 | 3/28/2005 9:38 | 427:48:25 | | 20.68349449 | | |
| 4 | 69 | | 0001 | | | -0.000132904 | -3.76 | | | 31.37 | | | | 553:51:45 | | | |
| -4 | | | | 529 | | | | 0.003817135 | 108.09 | 31.37 | 35.73 | 4/2/2005 15:45 | 553:55:25 | 553:51:45 | 23.53558181 | | - |
| ESORPTION | NIERMINATE | D 4/02/2005 DL | JE IO | NU GAS BEI | NGEVO | LVED, sample air | aried for 8 days | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | |
| AMPLE: | 1108' to 1110' | (Croweburg coa | | ings in SSD c | anister N | lull | | | | | | | terval between at | surface and can | ister times, and total | gas evolved | 1 |
| | | lbs. gra | ms | | | | - | | | | est. lost gas (cc) = | TIME OF: | | | elapsed time (off bo | ttom to canist | tering) |
| y sample we | eight: | | 16.58 | | | | | | | | | off bottom | at surface | in canister | | minutes | |
| | | | | | | | | | | | | 3/10/2005 14:09 | | | 0.085 | | 1 |
| G/LAB MEA | SUREMENTS | 00 | NVER | SION OF RIG | AB MP | ASUREMENTS | O STP (@60 deg | CUMULATIVE ' | | F/TON | SCF/TON | | TIME SINCE | | | SQRT (hrs) | 1 |
| | measured T (F | | | absolute T (R | | cubic ft (@STP) c | | cubic ft (@STP | | hout lost gas | | TIME OF MEASU | | in canister | SQRT hrs. (since o | | 1 |
| | | | | | | | | | | | | | | | | | - |
| 127 | 70 | | 0045 | | 14.135 | 0.004231155 | 119.81 | 0.004231155 | 119.81 | 17.72 | 20.83 | 3/15/2005 11:25 | 117:15:40 | | 10.82871697 | | - |
| 21 | 71 | | 0007 | | 14.096 | 0.000696398 | 19.72 | | 139.53 | 20.64 | 23.75 | | | | 11.94129157 | | - |
| 20 | 69 | | 0007 | | 13.901 | 0.000656549 | 18.59 | 0.005584102 | 158.12 | 23.39 | 26.50 | | 188:22:40 | | 13.72507843 | | |
| 2 | 68 | | 'E-05 | 528 | 14.070 | 6.65777E-05 | 1.89 | 0.00565068 | 160.01 | 23.67 | 26.78 | 3/19/2005 16:37 | 218:27:40 | 218:22:35 | 14.78043 | | 1 |
| 10 | 68 | 1075 0 . | 0004 | 528 | 13.953 | 0.000330124 | 9.35 | 0.005980804 | 169.36 | 25.05 | 28.16 | 3/21/2005 14:08 | 263:58:40 | 263:53:35 | 16.24739295 | | |
| 4 | 68 | | 0001 | 528 | | 0.00013205 | 3.74 | 0.006112854 | 173.10 | 25.60 | 28.71 | 3/22/2005 9:21 | 283:11:40 | | 16.82838211 | | 1 |
| 4 | 68 | | E-05 | | 14.031 | 3.31967E-05 | 0.94 | 0.006146051 | 174.04 | 25.74 | 28.85 | | 310:37:40 | | 17.62463554 | | 1 |
| 1 | | | | | | | | | | | | | | | | | - |
| 4 | 70 | | 0001 | 530 | 13.979 | 0.000131796 | 3.73 | 0.006277847 | | 26.30 | 29.40 | 3/24/2005 12:34 | 334:24:40 | | | | 1 |
| 0 | 69 | 1082 | 0 | 529 | 14.044 | 0 | 0.00 | 0.006277847 | | 26.30 | 29.40 | 3/25/2005 9:20 | 355:10:40 | | 18.84616082 | | 1 |
| 6 | 70 | 1075 0 . | 0002 | 530 | 13.953 | 0.000197327 | 5.59 | 0.006475174 | 183.36 | 27.12 | 30.23 | 3/28/2005 9:38 | 427:28:40 | 427:23:35 | 20.67553573 | | 1 |
| -5 | 69 | | 0002 | 529 | 14.070 | -0.00016613 | -4.70 | 0.006309045 | | 26.43 | 29.53 | 4/2/2005 15:46 | 553:36:40 | 553:31:35 | 23.52894199 | | 1 |
| ESORPTION | | | | | | LVED, sample air | | | | 0 | 0 | | | | | | 1 |
| | • • = • • • • • • • • • • • • • • • • • | 2 .,02/2000 DC | 1 | | .5 2.00 | L.L.D., Sumple all | a | | | | | | | + | 1 | | +- |
| | | | | | | | | | 1 1 | | | | | 1 | 1 | | 1 |
| | | | | | | | | | | | | | | | | | |

| dry sample weight | | | N | | | 1 | | | | | NOTE | | | 1 | at a strange of the state | | |
|--|--|--|--|---|--|---|--|---|--|---|--|--|---|---|---|----------------------|--------------|
| drv sample weigh | | | grams | gs in SSD cani | ster 1 | | | | | | est. lost gas (cc) = | | iterval between at | surface and can | ister times, and tota elapsed time (off bo | | (n c |
| | | 0.9138 | | | | | | | | | 23 | | at surface | in canister | elapsed time (of bt | minutes | iy) |
| , second and gr | n | 0.9130 | 414.47 | | | | | | | | 23 | 3/10/2005 14:34 | | ###################################### | 0.089 | hours | |
| RIG/LAB MEASU | UREMENTS | | CONVER | RSION OF RIG | G/LAB ME | ASUREMENTS | TO STP (@60 deg | CUMULATIVE ' | VOLUMES | SCF/TON | SCF/TON | | TIME SINCE | | 0.298607881 | SQRT (hrs) | |
| measured cc me | | measured I | | absolute T (R | | cubic ft (@STP) c | | | | without lost gas | with lost gas | TIME OF MEASU | off bottom | in canister | SQRT hrs. (since o | | |
| 147 | 70 | 1089 | 0.0052 | | 14.135 | 0.004897479 | 138.68 | 0.004897479 | | 10.72 | | | | | 10.79899687 | | |
| 27 | 71 | 1086 | 0.001 | | 14.096 | 0.000895369 | 25.35 | 0.005792848 | 164.03 | 12.68 | | | | | 11.92343631 | | |
| 22 | 69 | 1071 | 0.0008 | | 13.901 14.070 | 0.000722204 | 20.45 | 0.006515052 | 184.49 | 14.26 | | | | | 13.71319316 | | |
| <u> </u> | 68 68 | 1084 1075 | 0.0001 | | 14.070 | 9.98665E-05 0.000363137 | 2.83 10.28 | 0.006614918 0.006978055 | 187.31 197.60 | 14.48 15.27 | | | | | 14.76657261 16.23427444 | | |
| 3 | 68 | 1075 | 0.0004 | 528 | | 9.90373E-05 | 2.80 | 0.007077093 | 200.40 | | | | | | 16.81621242 | | |
| 2 | 68 | 1073 | 7E-05 | | 14.031 | 6.63934E-05 | 1.88 | 0.007143486 | | 15.64 | | | | | 17.61348915 | | |
| 5 | 70 | 1077 | 0.0002 | 530 | | 0.000164745 | 4.67 | 0.007308231 | 206.95 | 16.00 | | | | | 18.2752565 | | |
| 1 | 69 | 1082 | 4E-05 | 529 | | 3.31646E-05 | 0.94 | 0.007341396 | 207.88 | 16.07 | | | 354:45:06 | | 18.83485245 | | |
| 8 | 70 | 1075 | 0.0003 | 530 | | 0.000263103 | 7.45 | 0.007604499 | 215.33 | 16.64 | | | | | 20.66563169 | | |
| 3 | 69 | 1084 | 0.0001 | 529 | | 9.96777E-05 | 2.82 | 0.007704177 | | 16.86 | | | | | 23.52094811 | | |
| 6 | 69 | 1072 | 0.0002 | | 13.914 | 0.000197149 | 5.58 | 0.007901325 | 223.74 | 17.29 | | | | 599:32:45 | 24.48744576 24.93194069 | | |
| 2 | 70 71 | 1071 1075 | 7E-05 | | 13.901 13.953 | 6.5531E-05 | 1.86 0.00 | 0.007966856 | 225.60 225.60 | 17.44 | | | | | 25.35419098 | | |
| -1 | 71 | 1073 | -4E-05 | | 14.070 | -3.31008E-05 | -0.94 | 0.007933755 | 223.00 | 17.37 | | | | | 26.28278905 | | |
| | | | | | | | ed at 150 degrees l | | 22 1.00 | | 10.11 | 1/0/2000 0.22 | 000.11.00 | 000.11110 | 20.20270000 | | |
| | | | | | | | | , | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| SAMPLE: 12 | | | | cuttings in Da | art SSD ca | anister 4 | | | | | | | nterval between at | surface and can | ister times, and tota | | |
| <u> </u> | | | grams | | | | | | I | l | est. lost gas (cc) = | | | | | ottom to canistering | ng) |
| dry sample weigh | nt: | 0.0664 | 30.11 | | | | | | | 1 | 16 | off bottom | at surface | in canister | 5.5 | minutes | |
| RIG/LAB MEASU | | | | | | | TO STP (@60 deg | | | SCE/TON | SCF/TON | 3/10/2005 15:03 | 3/10/2005 15:07 TIME SINCE | ####################################### | 0.092 | hours SQRT (hrs) | |
| | easured T (F | measured I | | absolute T (R | | cubic ft (@STP) c | | | | without lost gas | | TIME OF MEASU | | in canister | SQRT hrs. (since o | | |
| 38 | 70 | 1089 | 0.0013 | | 14.135 | 0.001266015 | 35.85 | 0.001266015 | 35.85 | 38.14 | | | 116:18:11 | | 10.78438944 | | |
| 5 | 71 | 1086 | 0.0002 | 531 | 14.096 | 0.000165809 | 4.70 | 0.001431824 | 40.54 | 43.13 | | 3/16/2005 12:46 | 141:42:11 | 141:36:38 | 11.90390926 | | |
| 7 | 69 | 1071 | 0.0002 | | 13.901 | 0.000229792 | 6.51 | 0.001661616 | 47.05 | 50.06 | 67.08 | | | | 13.69317551 | | |
| -2 | 68 | 1084 | -7E-05 | | 14.070 | -6.65777E-05 | -1.89 | 0.001595038 | 45.17 | | | | 217:34:11 | | 14.75024482 | | |
| 2 | 68 | 1075 | 7E-05 | | 13.953 | 6.60249E-05 | 1.87 | 0.001661063 | 47.04 | | | | | | 16.21993801 | | |
| 0.5 | 68 | 1075 | 2E-05 | | 13.953 | 1.65062E-05 | 0.47 | 0.00167757 | 47.50 | | | | | | 16.80187655 17.59980271 | | |
| -2 | 68 70 | 1081 1077 | -7E-05 4E-05 | | 14.031 13.979 | -6.63934E-05 3.29491E-05 | -1.88 0.93 | 0.001611176 | 45.62 46.56 | | | | | | 17.59980271 18.26252234 | | |
| DESORPTION T | | | | | | LVED, sample air | | 0.001044120 | 40.00 | 40.00 | 00.00 | 0/24/2000 12:00 | 000.01.11 | 000.20.00 | 10.20202204 | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| SAMPLE: 14 | 475' to 1478' | | | in SSD canist | er 3 | | | | | | | | nterval between at | surface and can | ister times, and tota | | |
| Ļ., Ē | | | grams | | | | | | L | | est. lost gas (cc) = | | | | | ottom to canistering | ng) |
| dry sample weigh | ht: | 4.7965 | 2175.66 | | | | | | | | 114 | off bottom 3/11/2005 8:54 | at surface 3/11/2005 8:57 | in canister 3/11/2005 9:03 | 9.3 | minutes hours | |
| RIG/LAB MEASU | UREMENTS | | CONVER | RSION OF RIG | 3/LAB ME | ASUREMENTS | TO STP (@60 deg | CUMULATIVE | VOLUMES | SCE/TON | SCF/TON | 3/11/2003 8.34 | TIME SINCE | 3/11/2005 9.03 | 0.393700394 | SQRT (hrs) | |
| | | | | absolute T (R | | cubic ft (@STP) c | | cubic ft (@STP | | | | TIME OF MEASU | | in canister | SQRT hrs. (since o | | |
| 850 | | | | | | | | | | | | TIME OF MEASU | OII DOLLOITI | | | | |
| 175 | 69 | 1085 | 0.03 | | 14.083 | 0.028268073 | 800.46 | 0.028268073 | | | | 3/14/2005 18:44 | | 81:40:12 | 9.045717219 | | |
| | 70 | 1089 | 0.0062 | 529 530 | 14.083 14.135 | 0.028268073 0.005830332 | 800.46 165.10 | 0.028268073 | 800.46 965.56 | 11.79 14.22 | 13.47 15.90 | 3/14/2005 18:44 3/15/2005 11:06 | 81:49:30 98:11:30 | 81:40:12 98:02:12 | 9.045717219 9.909170836 | | |
| 118 | 70 71 | 1089 1086 | 0.0062 | 529 530 531 | 14.083 14.135 14.096 | 0.028268073 0.005830332 0.003913096 | 800.46 165.10 110.81 | 0.028268073 0.034098404 0.038011501 | 800.46 965.56 1076.36 | 11.79 14.22 15.85 | 13.47 15.90 17.53 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 | 81:49:30 98:11:30 123:51:30 | 81:40:12 98:02:12 123:42:12 | 9.045717219 9.909170836 11.12916589 | | |
| 118 121 | 70 71 69 | 1089 1086 1071 | 0.0062 0.0042 0.0043 | 529 530 531 529 | 14.083 14.135 14.096 13.901 | 0.028268073 0.005830332 0.003913096 0.00397212 | 800.46 165.10 110.81 112.48 | 0.028268073 0.034098404 0.038011501 0.041983621 | 800.46 965.56 1076.36 1188.84 | 11.79 14.22 15.85 17.51 | 13.47 15.90 17.53 19.18 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 | 81:49:30 98:11:30 123:51:30 169:39:30 | 81:40:12 98:02:12 123:42:12 169:30:12 | 9.045717219 9.909170836 11.12916589 13.0252959 | | |
| 118 121 66 | 70 71 69 68 | 1089 1086 1071 1084 | 0.0062 0.0042 0.0043 0.0023 | 529 530 531 529 528 | 14.083 14.135 14.096 13.901 14.070 | 0.028268073 0.005830332 0.003913096 0.00397212 0.002197063 | 800.46 165.10 110.81 112.48 62.21 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 | 800.46 965.56 1076.36 1188.84 1251.05 | 11.79 14.22 15.85 17.51 18.42 | 13.47 15.90 17.53 19.18 20.10 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 3/19/2005 16:39 | 81:49:30 98:11:30 123:51:30 169:39:30 199:44:30 | 81:40:12 98:02:12 123:42:12 169:30:12 199:35:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.13299921 | | |
| 118 121 66 71 | 70 71 69 68 68 | 1089 1086 1071 1084 1075 | 0.0062 0.0042 0.0043 0.0023 0.0025 | 529 530 531 529 528 528 528 | 14.083 14.135 14.096 13.901 14.070 13.953 | 0.028268073 0.005830332 0.003913096 0.00397212 0.002197063 0.002343884 | 800.46 165.10 110.81 112.48 62.21 66.37 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 0.046524568 | 800.46 965.56 1076.36 1188.84 1251.05 1317.42 | 11.79 14.22 15.85 17.51 18.42 19.40 | 13.47 15.90 17.53 19.18 20.10 21.08 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 3/19/2005 16:39 3/21/2005 14:09 | 81:49:30 98:11:30 123:51:30 169:39:30 199:44:30 245:14:30 | 81:40:12 98:02:12 123:42:12 169:30:12 199:35:12 245:05:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.13299921 15.6601937 | | |
| 118 121 66 | 70 71 69 68 | 1089 1086 1071 1084 | 0.0062 0.0042 0.0043 0.0023 | 529 530 531 529 528 | 14.083 14.135 14.096 13.901 14.070 | 0.028268073 0.005830332 0.003913096 0.00397212 0.002197063 | 800.46 165.10 110.81 112.48 62.21 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 | 800.46 965.56 1076.36 1188.84 1251.05 | 11.79 14.22 15.85 17.51 18.42 | 13.47 15.90 17.53 19.18 20.10 21.08 21.59 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 3/19/2005 16:39 3/21/2005 14:09 3/22/2005 9:23 | 81:49:30 98:11:30 123:51:30 169:39:30 199:44:30 245:14:30 264:28:30 | 81:40:12 98:02:12 123:42:12 169:30:12 199:35:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.13299921 | | |
| 118 121 66 71 37 32 29 | 70 71 69 68 68 68 68 68 70 | 1089 1086 1071 1084 1075 1075 | 0.0062 0.0042 0.0043 0.0023 0.0025 0.0013 0.0011 0.001 | 529 530 531 529 528 528 528 528 528 528 528 530 | 14.083 14.135 14.096 13.901 14.070 13.953 13.953 14.031 13.979 | 0.028268073 0.005830332 0.003913096 0.00397212 0.002197063 0.002343884 0.001221461 0.001062295 0.000955523 | 800.46 165.10 110.81 112.48 62.21 66.37 34.59 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 0.046524568 0.047746028 | 800.46 965.56 1076.36 1188.84 1251.05 1317.42 1352.01 | 11.79 14.22 15.85 17.51 18.42 19.40 19.91 | 13.47 15.90 17.53 19.18 20.10 21.08 21.59 22.03 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 3/19/2005 16:39 3/21/2005 14:09 3/22/2005 9:23 3/23/2005 12:50 3/24/2005 12:36 | 81:49:30 98:11:30 123:51:30 169:39:30 245:14:30 264:28:30 291:55:30 315:41:30 | 81:40:12 98:02:12 123:42:12 199:35:12 245:05:12 264:19:12 291:46:12 315:32:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.13299921 15.6601937 16.26268735 17.06581283 17.76771417 | | |
| 118 121 66 71 37 32 29 21 | 70 71 69 68 68 68 68 68 70 69 | 1089 1086 1071 1084 1075 1075 1081 1077 1082 | 0.0062 0.0042 0.0043 0.0023 0.0025 0.0013 0.0011 0.001 0.0007 | 529 530 531 529 528 528 528 528 528 528 528 529 | 14.083 14.135 14.096 13.901 14.070 13.953 13.953 14.031 13.979 14.044 | 0.028268073 0.005830332 0.003913093 0.00397212 0.002197063 0.002343884 0.001221461 0.001062295 0.000955523 0.000696457 | 800.46 165.10 110.81 112.48 62.21 66.37 34.59 30.08 27.06 19.72 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 0.046524568 0.047746028 0.048808323 0.049763845 0.050460302 | 800.46 965.56 1076.36 1188.84 1251.05 1317.42 1352.01 1382.09 1409.15 1428.87 | 11.79 14.22 15.85 17.51 18.42 19.40 19.91 20.35 20.75 21.04 | 13.47 15.90 17.53 19.18 20.10 21.08 21.59 22.03 22.43 22.72 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 11:06 3/18/2005 10:34 3/19/2005 16:39 3/21/2005 14:09 3/22/2005 12:50 3/22/2005 12:50 3/24/2005 12:36 3/25/2005 9:19 | 81:49:30 98:11:30 123:51:30 169:39:30 245:14:30 264:28:30 291:55:30 315:41:30 336:24:30 | 81:40:12 98:02:12 123:42:12 169:30:12 245:05:12 264:19:12 291:46:12 315:32:12 336:15:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.1329921 15.6601937 16.26268735 17.08581283 17.76771417 18.3414376 | | |
| 118 121 66 71 37 32 29 21 53 | 70 71 69 68 68 68 68 68 70 69 70 | 1089 1086 1071 1084 1075 1075 1081 1077 1082 1075 | 0.0062 0.0042 0.0043 0.0023 0.0025 0.0013 0.0011 0.001 0.0007 0.0019 | 529 530 531 529 528 528 528 528 528 528 528 529 530 | 14.083 14.135 14.096 13.901 14.070 13.953 13.953 14.031 13.979 14.044 13.953 | 0.028268073 0.005830332 0.003913096 0.00397212 0.002197063 0.002343884 0.001221461 0.001062295 0.000955523 0.000696457 0.001743057 | 800.46 165.10 110.81 112.48 62.21 66.37 34.59 30.08 27.06 19.72 49.36 | 0.028268073 0.034098404 0.038011501 0.041983621 0.044180684 0.046524568 0.047746028 0.048808323 0.049763845 0.050460302 0.052203359 | 800.46 965.56 1076.36 1188.84 1251.05 1317.42 1352.01 1382.09 1409.15 1428.87 1478.23 | 11.79 14.22 15.85 17.51 18.42 19.40 19.91 20.35 20.75 21.04 21.77 | 13.47 15.90 17.53 19.18 20.10 21.08 21.59 22.03 22.43 22.77 23.45 | 3/14/2005 18:44 3/15/2005 11:06 3/16/2005 12:46 3/18/2005 10:34 3/19/2005 16:39 3/21/2005 14:09 3/22/2005 9:23 3/23/2005 12:36 3/25/2005 9:19 3/28/2005 9:39 | 81:49:30 98:11:30 123:51:30 169:39:30 245:14:30 264:28:30 291:55:30 315:41:30 336:24:30 408:44:30 | 81:40:12 98:02:12 123:42:12 169:30:12 245:05:12 264:19:12 291:46:12 315:32:12 336:15:12 | 9.045717219 9.909170836 11.12916589 13.0252959 14.1329922 15.6601937 16.26268735 17.08581283 17.76771417 18.3414376 20.21736053 | | |
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1077 1086 1077 1086 1077 1086 1077 1086 1078 1086 1077 1086 1078 1086 1078 1078 1078 1078 1078 1078 1078 1078 | 0.002 0.0042 0.0042 0.0043 0.0025 0.0043 0.0025 0.0013 0.001 0.0025 0.001 0.0025 0.001 0.0011 0.001 0.0011 0.0011 0.0011 0.0013 0.0011 0.0014 0.0011 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001< | 529 530 531 528 528 528 528 528 529 530 529 530 531 531 531 531 533 530 521 522 523 524 525 528 529 528 529 528 529 528 529 528 | 14,083,14,135 14,135 14,096 13,901 13,953 13,953 13,953 13,953 14,070 13,953 14,071 13,973 14,074 13,983 14,070 13,927 14,074 13,983 14,070 13,927 14,031 13,940 13,395 14,075 13,396 14,13514,135 14,135 14,135 14,13514,135 14,135 14,135 14,135 14,13514,135 14,135 14,13514,135 14,135 14,13514 | 0.028268073 0.00582032 0.00397212 0.00397213 0.00297763 0.00297763 0.00297763 0.00297763 0.0021468 0.00162295 0.000955523 0.000955523 0.000159684 0.000159684 0.000159684 0.00025713 0.000569179 0.000520718 0.000520718 0.000520718 0.000520718 0.000265719 0.000265719 0.000265719 0.000265718 0.000265718 0.000265718 0.000265718 0.000265718 0.000265718 0.000265718 0.000265718 0.000265718 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00026578 0.00042673 0.00026578 0.00042673 0.000426753 0.000664856 0.00038758 0.000165578 0.00016573 0.000165578 0.00016578 0.000237753 0.000165578 0.00023775 0.000165753 0.000165578 0.00023775 0.000165753 0.000165578 0.00023775 0.00016522 | 800.46 800.41 165.10 110.81 111.24 66.37 30.08 27.06 119.72 49.36 61.16 34.59 30.08 27.06 34.59 30.08 27.06 19.72 49.36 61.16 34.43 16.70 12.08 14.75 8.33 5.61 7.58 7.58 10.27 112.14 7.43 2.82 0.365 13.04 3.78 9.39 16.00 10.43 7.758 4.72 1.94 10.43 7.758 4.72 1.94 6.62 2.81 6.62 2.81 < | 0.028268073 0.034098404 0.03801501 0.04180884 0.048193621 0.044180884 0.044524668 0.047746028 0.04820452 0.0482032 0.05578733 0.05578733 0.05578733 0.05578733 0.0556188572 0.0557158022 0.05525555 0.056022853 0.056022853 0.0561041471 0.061075047 0.061041435 0.062832612 0.06283612 0.062832732 0.062832732 0.062832732 0.062832732 0.062323136 | 800.46 965.56 1076.36 1188.84 1251.05 1317.42 1352.01 1362.09 1409.15 1362.09 1409.15 1362.09 1409.15 1428.47 1478.23 1573.81 1593.81 1593.81 1593.81 1593.81 1692.59 1618.53 1634.36 1649.25 1649.25 1649.25 1649.25 1722.06 1729.49 1722.06 1729.49 1722.06 1729.49 1742.85 1742.48 1746.26 1779.49 1745.05 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1746.26 1777.85 1742.48 1745.65 1777.85 1742.48 1745.65 1777.85 1742.48 1745.65 1777.85 1742.48 1745.65 1777.85 1742.48 1745.65 1777.85 1745.48 1745.55 1745.48 1745.48 1745.55 1745.48 1745.48 1745.55 1745.48 | 11.79 14.22 16.85 17.51 18.42 19.40 19.91 20.35 20.75 21.04 21.77 22.67 23.42 23.60 24.63 24.07 24.29 24.55 25.47 25.54 25.547 25.547 25.55 25.47 25.5 | 1 3.47 15.90 17.63 19.18 20.10 21.69 22.03 22.43 22.72 23.45 24.48 25.51 25.57 25.74 25.96 26.61 26.33 26.33 26.50 26.61 27.74 27.75 27.73 27.73 27.73 27.75 27.74 27.85 27.75 27.74 27.85 27.75 27.74 27.85 27.75 27.75 27.75 27.78 27.85 27.74 27.85 27.74 27.85 27.75 2 | 3/14/2005 18:44 3/15/2005 11:46 3/16/2005 12:46 3/16/2005 12:46 3/16/2005 12:46 3/16/2005 12:46 3/16/2005 12:46 3/16/2005 12:46 3/26/2005 16:30 3/21/2005 16:30 3/22/2005 16:30 3/22/2005 12:50 3/24/2005 13:40 4/2/2005 13:47 4/2/2005 13:47 4/16/2005 12:20 4/10/2005 12:20 4/10/2005 12:20 4/10/2005 12:20 4/10/2005 12:20 4/10/2005 12:20 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/12/2005 13:40 4/22/2005 16:45 5/1/2005 18:56 5/1/2005 | 81:49:30 98:11:30 123:51:33 199:34:30 244:28:30 244:28:30 244:28:30 245:14:30 244:28:30 336:24:30 336:24:30 358:119:33 602:319 602:319 602:319 771:25:30 771:25:30 772:26:30 773:17:30 779:25:50 870:49:30 870:49: | 81:40:12 98:02:12 123:42:12 149:35:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 245:05:12 255:15:12 255:15:12 255:15:12 255:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:12 257:15:15:15:15:15:15:15:15:15:15:15:15:15: | 9.045717219 9.909170836 11.12916589 13.0252959 14.13299221 15.6601937 16.6268735 17.06581283 17.76771417 18.3414376 20.21736053 23.12736474 24.11068228 24.56165711 24.9004819 25.93148023 26.48442939 27.45259267 23.02309784 30.24001213 31.1799824 33.02309789 33.7052172 34.0336706 34.40336706 34.78541361 35.1239472 35.40925841361 35.1239472 36.30231857 36.79254396 37.4324948 | | |

| 2 68 1085 7E-05 528 14.083 6.6639 -1 66 1090 -4E-05 526 14.148 -3.3600 3 66 1080 0.0001 526 14.018 9.33600 9 68 1072 0.0003 528 13.914 0.0002 5 68 1075 0.0002 528 13.953 0.0001 2 71 1081 7E-05 531 14.031 6.6014 | IE-05 -0.95 0.063958522 1811.10 IE-05 2.83 0.064058398 1813.92 6283 8.39 0.064354681 1822.31 5062 4.67 0.064519743 1826.99 | 26.68 28.36 26.67 28.35 26.71 28.39 26.83 28.51 26.90 28.58 | 5/15/2005 11:02 1562:07:30 | 0 1561:58:12 39.52372705 0 1591:05:12 39.8903706 | |
|--|--|---|----------------------------|---|--|
| 3 66 1080 0.0001 526 14.018 9.9876 9 68 1072 0.0003 528 13.914 0.0002 5 68 1075 0.0002 528 13.953 0.0001 | BE-05 2.83 0.064058398 1813.92 6283 8.39 0.064354681 1822.31 5062 4.67 0.064519743 1826.99 | 26.71 28.39 26.83 28.51 | 5/16/2005 16:09 1591:14:30 | 0 1591:05:12 39.8903706 | |
| 9 68 1072 0.0003 528 13.914 0.0002 5 68 1075 0.0002 528 13.953 0.0001 | 6283 8.39 0.064354681 1822.31 5062 4.67 0.064519743 1826.99 | 26.83 28.51 | | | |
| 5 68 1075 0.0002 528 13.953 0.0001 | 5062 4.67 0.064519743 1826.99 | | | 1641:27:12 40.51676608 | |
| | | | 5/19/2005 20:05 1667:10:30 | | |
| | E-05 1.87 0.064585762 1828.86 | 26.93 28.61 | 5/20/2005 12:09 1683:14:30 | | |
| 5 71 1076 0.0002 531 13.966 0.0001 | | 27.00 28.68 | 5/21/2005 16:01 1711:06:30 | | |
| 3 72 1081 0.0001 532 14.031 9.8841 | | 27.04 28.72 | 5/22/2005 10:08 1729:13:30 | | |
| 7 71 1085 0.0002 531 14.083 0.0002 | | 27.14 28.82 | 5/26/2005 16:09 1831:14:30 | | |
| 3 70 1084 0.0001 530 14.070 9.9489 | | 27.18 28.86 | | | |
| 3 70 1080 0.0001 530 14.018 9.9122 | | 27.22 28.90 | 5/28/2005 15:12 1878:17:30 | | |
| 3 70 1078 0.0001 530 13.992 9.893 | | 27.26 28.94 | 5/29/2005 16:21 1903:26:30 | | |
| 0 70 1082 0 530 14.044 | 0 0.00 0.065378356 1851.30 | 27.26 28.94 | 5/30/2005 14:21 1925:26:30 | | |
| 6 70 1080 0.0002 530 14.018 0.0001 | | 27.34 29.02 | 6/1/2005 11:15 1970:20:30 | | |
| 5 70 1077 0.0002 530 13.979 0.0001 | | 27.41 29.09 | 6/2/2005 14:18 1997:23:30 | | |
| 7 71 1075 0.0002 531 13.953 0.0002 | | 27.51 29.19 | 6/3/2005 17:05 2024:10:30 | 2024:01:12 44.9908324 | |
| 4 71 1071 0.0001 531 13.901 0.0001 | | 27.56 29.24 | 6/4/2005 12:50 2043:55:30 | | |
| 5 72 1079 0.0002 532 14.005 0.0001 | 4431 4.66 0.066266373 1876.45 | 27.63 29.31 | 6/6/2005 11:40 2090:45:30 | 2090:36:12 45.72481092 | |
| 6 73 1074 0.0002 533 13.940 0.0001 | 6034 5.55 0.066462407 1882.00 | 27.71 29.39 | 6/7/2005 23:24 2126:29:30 | 2126:20:12 46.11389884 | |
| 6 73 1072 0.0002 533 13.914 0.0001 | 5669 5.54 0.066658076 1887.54 | 27.79 29.47 | 6/8/2005 17:04 2144:09:30 | 2144:00:12 46.30505732 | |
| 6 73 1077 0.0002 533 13.979 0.0001 | 6582 5.57 0.066854658 1893.11 | 27.88 29.56 | 6/10/2005 12:01 2187:06:30 | 2186:57:12 46.76653005 | |
| 12 73 1074 0.0004 533 13.940 0.0003 | 2068 11.10 0.067246726 1904.21 | 28.04 29.72 | 6/13/2005 12:03 2259:08:30 | 2258:59:12 47.53042885 | |
| 2 73 1079 7E-05 533 14.005 6.5648 | E-05 1.86 0.067312375 1906.07 | 28.07 29.75 | 6/14/2005 18:11 2289:16:30 | 2289:07:12 47.84636872 | |
| 2 73 1081 7E-05 533 14.031 6.5770 | E-05 1.86 0.067378146 1907.93 | 28.09 29.77 | 6/16/2005 21:08 2340:13:30 | 2340:04:12 48.37587209 | |
| 4 73 1086 0.0001 533 14.096 0.000 | 3215 3.74 0.067510295 1911.67 | 28.15 29.83 | 6/19/2005 13:11 2404:16:30 | 2404:07:12 49.03340698 | |
| 3 74 1087 0.0001 534 14.109 9.9017 | 'E-05 2.80 0.067609313 1914.48 | 28.19 29.87 | 6/20/2005 14:42 2429:47:30 | | |
| 2 74 1088 7E-05 534 14.122 6.6072 | | 28.22 29.90 | 6/21/2005 9:22 2448:27:30 | | |
| 7 74 1085 0.0002 534 14.083 0.0002 | | 28.31 29.99 | 6/23/2005 9:51 2496:56:30 | | |
| 5 70 1081 0.0002 530 14.031 0.0001 | | 28.38 30.06 | | | |
| 3 73 1082 0.0001 533 14.044 9.8747 | | 28.42 30.10 | 6/27/2005 11:05 2594:10:30 | | |
| 4 71 1077 0.0001 531 13.979 0.0001 | | 28.48 30.16 | 6/29/2005 15:07 2646:12:30 | | |
| 2 74 1081 7E-05 534 14.031 6.5647 | | 28.51 30.19 | 7/1/2005 15:05 2694:10:30 | | |
| 3 74 1082 0.0001 534 14.044 9.8562 | | 28.55 30.23 | 7/4/2005 13:13 2764:18:30 | | |
| 0 75 1086 0 535 14.096 | 0 0.00 0.068465864 1938.73 | 28.55 30.23 | 7/5/2005 14:36 2789:41:30 | | |
| 2 74 1083 7E-05 534 14.057 6.5768 | | 28.58 30.25 | 7/6/2005 16:57 2816:02:30 | | |
| 0 74 1085 0 534 14.083 | 0 0.00 0.068531633 1940.59 | 28.58 30.25 | 7/7/2005 11:20 2834:25:30 | | |
| 2 74 1085 7E-05 534 14.083 6.5890 | | 28.60 30.28 | 7/9/2005 12:13 2883:18:30 | | |
| 0 74 1081 0 534 14.031 | 0 0.00 0.068597523 1942.46 | 28.60 30.28 | 7/11/2005 15:05 2934:10:30 | 2934:01:12 54.16802562 | |
| DESORPTION TERMINATED 7/11/2005 DUE TO NO GAS BEING EVOLVED, sa | nple air dried for 35 Days | | | | |
| | | | | | |
| | | | | | |

| SAMPLE: 1498 to 1502' (Riverton coal) cuttings in SSD canister 7 NOTE: los gas is estimated by time interval between at surface and canister times, and total gas evolved | | | | | | | | | | | | | | | | |
|---|---------|-----------|----------|--------------|---------|-----------------|---------------------|-------------|--------|------------------|----------------------|-----------------|------------|----------------|------------------------|---------|
| | lb | | grams | | | | | | | | est. lost gas (cc) = | | | | elapsed time (off bott | |
| dry sample weight: | | 1.5387 | 697.97 | | | | | | | | 48 | off bottom | at surface | in canister | | ninutes |
| | | | | | | | | | | | | 3/11/2005 9:11 | | 3/11/2005 9:20 | 0.162 h | |
| RIG/LAB MEASUREME | | | | | | | TO STP (@60 deg | | | | SCF/TON | | TIME SINCE | | 0.402423216 S | |
| measured cc measured | l T (Fm | | | | | cubic ft (@STP) | | | | without lost gas | | TIME OF MEASU | | | SQRT hrs. (since off | bottom) |
| 384 | 70 | 1089 | 0.0136 | | 14.135 | | | 0.012793414 | 362.27 | 16.63 | 18.83 | | | | | |
| 63 | 71 | 1086 | 0.0022 | | 14.096 | | 59.16 | | 421.43 | 19.34 | 21.55 | | | | | |
| 50 | 69 | 1071 | 0.0018 | 529 | | 0.001641372 | 46.48 | 0.016523981 | 467.91 | 21.48 | 23.68 | 3/18/2005 10:36 | | | | |
| 14 | 68 | 1084 | 0.0005 | | 14.070 | | 13.20 | 0.016990025 | 481.10 | 22.08 | 24.29 | | | | | |
| 23 | 68 | 1075 | 0.0008 | 528 | | | 21.50 | 0.017749311 | 502.60 | 23.07 | 25.27 | | 244:58:58 | | | |
| 8 | 68 | 1075 | | 528 | | | 7.48 | 0.018013411 | 510.08 | 23.41 | 25.62 | 3/22/2005 9:23 | | | | |
| 7 | 68 | 1081 | 0.0002 | 528 | | 0.000232377 | 6.58 | 0.018245788 | 516.66 | 23.72 | 25.92 | | | | | |
| 10 | 70 | 1077 | 0.0004 | 530 | | | 9.33 | 0.018575278 | 525.99 | 24.14 | 26.35 | | | | | |
| 3 | 69 | 1082 | 0.0001 | 529 | | | 2.82 | 0.018674772 | 528.81 | 24.27 | 26.48 | 3/25/2005 9:18 | | | | |
| 17 | 70 | 1075 | 0.0006 | 530 | | | 15.83 | 0.019233866 | 544.64 | 25.00 | 27.20 | 3/28/2005 9:41 | | | | |
| 12 | 69 | 1084 | 0.0004 | 529 | | | 11.29 | 0.019632577 | 555.93 | 25.52 | 27.72 | 4/2/2005 15:48 | | | | |
| 11 | 69 | 1072 | | | 13.914 | | 10.23 | 0.019994016 | 566.17 | 25.99 | 28.19 | 4/4/2005 14:14 | | | | |
| 3 | 70 | 1071 | 0.0001 | 530 | | 9.82965E-05 | 2.78 | 0.020092312 | 568.95 | 26.12 | 28.32 | 4/5/2005 12:10 | | | 24.55570764 | |
| 1 | 71 | 1075 | 4E-05 | | 13.953 | | 0.93 | 0.020125138 | 569.88 | 26.16 | 28.36 | 4/6/2005 9:26 | 624:14:58 | 624:05:15 | 24.98498438 | |
| -1 | 71 | 1084 | -4E-05 | | | | -0.94 | 0.020092037 | 568.94 | 26.11 | 28.32 | 4/8/2005 9:21 | 672:09:58 | | | |
| 1 | 69 | 1073 | 4E-05 | | | 3.28887E-05 | 0.93 | 0.020124926 | 569.87 | 26.16 | 28.36 | 4/9/2005 14:20 | | | | |
| 2 | 70 | 1074 | 7E-05 | 530 | | | 1.86 | 0.020190641 | 571.73 | 26.24 | 28.45 | 4/10/2005 10:21 | | | | |
| 8 | 71 | 1066 | 0.0003 | 531 | 13.836 | 0.000260409 | 7.37 | 0.02045105 | 579.11 | 26.58 | 28.78 | 4/11/2005 17:04 | 751:52:58 | 751:43:15 | 27.42048099 | |
| 0 | 73 | 1075 | 0 | 533 | 13.953 | 0 | 0.00 | 0.02045105 | 579.11 | 26.58 | 28.78 | 4/12/2005 14:13 | 773:01:58 | 772:52:15 | 27.80346701 | |
| -1 | 73 | 1085 | | | 14.083 | | -0.93 | 0.020418043 | 578.17 | 26.54 | 28.74 | 4/13/2005 12:20 | 795:08:58 | 794:59:15 | 28.19839436 | |
| DESORPTION TERMIN | ATED 4 | 4/13/2005 | 5 DUE TO | O NO GAS BEI | ING EVC | LVED, sample a | ir dried for 7 Days | | | | | | | | | |