

Appendix 2 – Copies of all of the desorption spreadsheets. The buttons labeled “Sample Type” and “Data Summary” do not necessarily represent the entered values because of a flaw in some of the spreadsheets (this flaw does not effect gas content calculations). All Sample Types are Cores and all Data Summary are Final Result. Coal from individual canisters of the Sewickley, Redstone, Pittsburgh Roof, and Pittsburgh coal beds were not analyzed for ash content because measured gas contents were very low, thus dry ash-free total gas content was not determined. For discussion on the spreadsheets, see Barker and others (2002).

Abbreviations: ID = identification; STP = standard temperature and pressure; cc/g = centimeters per gram; ft = feet; DAF and daf = dry, ash free; hh:mm = hours and minutes; SCF/ton = standard cubic feet per ton; cc = centimeters; % = percent; mm/dd/yr = month/day/year; F° = degrees Fahrenheit; Hrs = hours; ml = milliliter.

Canister 1 - WV-02-CB3-10

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

[illegible]

Canister 2 – WV-02-B3-1

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

[illegible]

[illegible]

Canister 1 – WV-02-US4-5

enter data only in shaded areas. copy and paste formulas as needed to calculate more desorption data (columns H through N)

Enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)														Headspace Correction	
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal Mass	Cumulative Volume @ STP	Cumulative Gas Content		
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})			(milliliter)	(SCF)		
In Can	9/30/2002	15:13	82.0	28.85	0		0.00	0.00	0.45	0.00	#DIV/0!	0.0	0.0		
1	9/30/2002	15:25	83.1	28.88	5	69.7	4.74	4.74	0.63	0.00	#DIV/0!	4.4	0.000		
2	9/30/2002	15:39	77.8	28.88	1	71.3	0.95	5.69	0.80	0.00	#DIV/0!	5.3	0.000		
3	9/30/2002	15:48	79.0	28.88	2	71.4	1.89	7.58	0.89	0.00	#DIV/0!	7.0	0.000		
4	9/30/2002	15:58	77.9	28.88	0	71.2	0.00	7.58	0.97	0.00	#DIV/0!	7.0	0.000		
5	9/30/2002	16:26	75.1	28.88	1	74.4	0.94	8.52	1.19	0.00	#DIV/0!	7.9	0.000		
6	9/30/2002	17:21	71.2	28.85	1	74.0	0.94	9.46	1.53	0.00	#DIV/0!	8.8	0.000		
7	9/30/2002	19:04	66.6	28.85	1	73.2	0.94	10.40	2.01	0.00	#DIV/0!	9.7	0.000		
8	10/1/2002	11:03	68.0	28.91	-1	71.8	-0.95	9.45	4.48	0.00	#DIV/0!	8.8	0.000		
9	10/2/2002	9:00	68.4	28.91	5	71.3	4.73	14.18	6.48	0.01	#DIV/0!	13.3	0.000		
10	10/2/2002	14:28	74.5	28.79	2	72.2	1.88	16.06	6.89	0.01	#DIV/0!	15.1	0.001		
11	10/3/2002	9:44	70.0	28.79	1	69.5	0.95	17.01	8.17	0.01	#DIV/0!	16.0	0.001		
12	10/4/2002	9:46	71.0	28.73	2	70.5	1.88	18.89	9.53	0.01	#DIV/0!	17.7	0.001		
13	10/7/2002	11:26	64.5	28.85	-6	69.8	-5.68	13.21	12.82	0.01	#DIV/0!	12.3	0.000		
14	10/8/2002	9:41	52.6	29.08	6	65.2	5.78	18.99	13.66	0.01	#DIV/0!	17.9	0.001		
15	10/10/2002	11:22	72.1	28.91	8	68.7	7.61	26.60	15.37	0.01	#DIV/0!	25.1	0.001		
16	10/11/2002	10:39	66.0	28.85	3	68.0	2.85	29.45	16.11	0.01	#DIV/0!	27.8	0.001		
17	10/12/2002	13:12	74.3	29.56	2	71.5	1.93	31.38	16.92	0.01	#DIV/0!	29.6	0.001		
18	10/13/2002	14:17	72.8	29.62	-1	71.0	-0.97	30.41	17.64	0.01	#DIV/0!	28.7	0.001		
19	10/14/2002	13:57	73.2	29.83	-1	70.4	-0.98	29.43	18.30	0.01	#DIV/0!	27.7	0.001		
20	10/15/2002	15:02	74.0	29.71	2	70.0	1.95	31.38	18.97	0.01	#DIV/0!	29.6	0.001		
21	10/16/2002	14:42	73.3	29.15	2	70.5	1.91	33.29	19.59	0.01	#DIV/0!	31.4	0.001		
22	10/17/2002	13:39	73.3	29.41	-1	70.3	-0.96	32.33	20.17	0.01	#DIV/0!	30.5	0.001		
23	10/18/2002	14:04	73.8	29.65	-1	70.1	-0.97	31.36	20.76	0.01	#DIV/0!	29.6	0.001		
24	10/19/2002	14:42	74.4	29.56	0	70.1	0.00	31.36	21.35	0.01	#DIV/0!	29.6	0.001		
25	10/20/2002	14:26	73.1	29.47	-1	70.2	-0.97	30.39	21.90	0.01	#DIV/0!	28.6	0.001		
26	10/21/2002	15:46	73.2	29.65	-2	69.7	-1.95	28.44	22.47	0.01	#DIV/0!	26.8	0.001		
27	10/22/2002	14:01	74.2	29.71	-1	68.9	-0.98	27.47	22.96	0.01	#DIV/0!	25.9	0.001		
28	STOPPED ANALYSES														

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	15.8	Raw total gas (cc/g)	0.02
Well ID:	306-061 (Redstone)	Can no.	WV-02-B3-2			
Sample Interval (ft):	From:	407.3	To:	408	Milliliters/gram raw coal:	0.02
Core Date: (mm/dd/yr)				9/30/2002	DAF total gas (cc/g)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)				15:01	Raw total gas (SCF/ton)	0.57
Raw coal mass (air-dry): (grams)				888	DAF total gas (SCF/ton)	#DIV/0!
Coal mass (d.a.f.): (grams)						
Headspace volume: (cc)				0		
Sample Type	Data Summary		Cuttings correction 25% (SCF/ton)		N/A	
<input checked="" type="radio"/> Core <input type="radio"/> Cuttings	<input type="radio"/> Preliminary <input checked="" type="radio"/> Final Results					

enter data only in shaded areas. copy and paste formulas as needed to calculate more desorption data (columns H through N)

Enter data only in shaded areas, copy and paste formulas as needed to calculate more description data (columns H through N)													
	Date (mm/dd/yr)	Time 24 hour Clock HH:MM	Ambient Temp °F	Pressure inches Hg	Delta Gas Volume (milliliter)	Internal Canister Temp. °F	Delta Volume @ STP (milliliter)	Cumulative Volume @ STP (milliliter)	Sq. Root Elapsed Time (Hrs ^{1/2})	m/gram Raw Coal Mass	m/g d.a.f Coal Mass	Headspace Correction	
												Cumulative Volume @ STP (milliliter)	Cumulative Gas Content (SCF)
In Can	9/30/2002	15:14	82.0	28.85	0		0.00	0.00	0.47	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	15:26	82.3	28.88	18	71.3	17.01	17.01	0.65	0.02	#DIV/0!	15.8	0.001
2	9/30/2002	15:37	81.4	28.88	0	71.2	0.00	17.01	0.77	0.02	#DIV/0!	15.8	0.001
3	9/30/2002	15:49	78.8	28.88	0	71.2	0.00	17.01	0.89	0.02	#DIV/0!	15.8	0.001
4	9/30/2002	15:59	77.8	28.88	0	71.4	0.00	17.01	0.98	0.02	#DIV/0!	15.8	0.001
5	9/30/2002	16:27	74.3	28.88	0	71.7	0.00	17.01	1.20	0.02	#DIV/0!	15.8	0.001
6	9/30/2002	17:20	72.0	28.85	0	71.0	0.00	17.01	1.52	0.02	#DIV/0!	15.8	0.001
7	Stopped analyses												

Canister 1 – WV-02-B3-3

Enter data only in shaded areas, copy and paste for formulas as needed to calculate more desorption data (columns H through N)													
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Correction	
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Coal Mass	Coal Mass	Cumulative Volume @ STP (milliliter)	Cumulative Gas Content (SCF)
In Can	9/30/2002	16:57	89.6	28.91	0		0.00	0.00	0.55	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	17:08	71.7	28.85	22	70.9	20.79	20.79	0.70	0.01	#DIV/0!	19.6	0.001
2	9/30/2002	17:17	72.2	28.85	0	70.8	0.00	20.79	0.80	0.01	#DIV/0!	19.6	0.001
3	9/30/2002	18:33	68.6	28.85	0	71.5	0.00	20.79	1.38	0.01	#DIV/0!	19.6	0.001
4	9/30/2002	19:06	66.8	28.85	0	71.0	0.00	20.79	1.57	0.01	#DIV/0!	19.6	0.001
5	9/30/2002	19:41	69.5	28.85	0	71.2	0.00	20.79	1.74	0.01	#DIV/0!	19.6	0.001
6	10/2/2002	11:45	75.0	28.85	9	72.6	8.48	29.27	6.57	0.02	#DIV/0!	27.6	0.001
7	10/2/2002	14:17	74.8	28.79	2	73.1	1.88	31.15	6.76	0.02	#DIV/0!	29.4	0.001
8	10/3/2002	9:07	74.8	28.79	2	69.8	1.89	33.04	8.03	0.02	#DIV/0!	31.1	0.001
9	10/3/2002	13:06	74.8	28.82	2	72.1	1.88	34.92	8.27	0.02	#DIV/0!	32.9	0.001
10	10/4/2002	10:34	73.4	28.76	3	70.5	2.83	37.75	9.48	0.03	#DIV/0!	35.6	0.001
11	10/7/2002	11:32	64.5	28.85	-2	67.2	-1.90	35.84	12.76	0.02	#DIV/0!	33.8	0.001
12	10/8/2002	9:31	52.8	28.94	0	64.5	0.00	35.84	13.60	0.02	#DIV/0!	33.8	0.001
13	10/9/2002	12:28	69.7	28.84	20	74.0	18.78	54.63	14.55	0.04	#DIV/0!	51.7	0.002
14	10/10/2002	11:34	67.8	28.91	4	74.5	3.76	58.39	15.33	0.04	#DIV/0!	55.3	0.002
15	10/11/2002	10:35	67.0	28.85	-2	68.0	-1.90	56.49	16.06	0.04	#DIV/0!	53.5	0.002
16	10/11/2002	18:43	71.1	28.82	-2	72.7	-1.88	54.61	16.31	0.04	#DIV/0!	51.7	0.002
17	10/12/2002	13:14	74.3	29.56	1	71.5	0.97	55.58	16.87	0.04	#DIV/0!	52.6	0.002
18	10/13/2002	14:18	72.8	29.62	0	71.0	0.00	55.58	17.60	0.04	#DIV/0!	52.6	0.002
19	10/14/2002	13:58	73.2	29.83	1	70.4	0.98	56.55	18.26	0.04	#DIV/0!	53.5	0.002
20	10/15/2002	15:02	74.0	29.71	2	70.0	1.95	58.50	18.93	0.04	#DIV/0!	55.4	0.002
21	10/16/2002	14:42	73.3	29.15	3	70.5	2.87	61.37	19.55	0.04	#DIV/0!	58.1	0.002
22	10/17/2002	13:39	73.3	29.41	-1	70.3	-0.96	60.41	20.12	0.04	#DIV/0!	57.1	0.002
23	10/18/2002	14:04	73.8	29.65	-1	70.1	-0.97	59.43	20.72	0.04	#DIV/0!	56.2	0.002
24	10/19/2002	14:44	74.4	29.56	1	70.1	0.97	60.40	21				

Pittsburgh Roof coal, con't.

Canister 2 - WV-02-B3-5

Project	DOE/WVGES/USGS			Cumulative volume @ STP:	42.2	Raw total gas (cc/g)	0.04
Well ID:	306-061 (Pitts. Roof 2)	Can no.	WV-02-B3-5	Milliliters/gram raw coal:	0.04	DAF total gas (cc/g)	#DIV/0!
Sample Interval (ft):	From: 432.35	To:	433.25	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	1.20
Core Date: (mm/dd/yr)	9/30/2002			(excluding lost gas)		DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	17:52			Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	1121			(from lost gas graph)			
Coal mass (d.a.f.): (grams)							
Headspace volume: (cc)	0						

Sample Type

☒ Core ☐ Cuttings

Data Summary

☒ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal Mass	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	9/30/2002	18:15	86.9	28.91	0		0.00	0.00	0.62	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:22	69.1	28.85	21	70.9	19.84	19.84	0.71	0.02	#DIV/0!	18.8	0.001
2	9/30/2002	18:31	68.6	28.85	0	71.5	0.00	19.84	0.81	0.02	#DIV/0!	18.8	0.001
3	9/30/2002	19:06	66.8	28.85	0	71.0	0.00	19.84	1.11	0.02	#DIV/0!	18.8	0.001
4	9/30/2002	19:40	69.5	28.85	0	71.2	0.00	19.84	1.34	0.02	#DIV/0!	18.8	0.001
5	10/1/2002	11:00	70.0	28.90	-2	68.0	-1.90	17.94	4.14	0.02	#DIV/0!	17.0	0.001
6	10/2/2002	8:42	67.1	28.91	3	71.9	2.84	20.78	6.23	0.02	#DIV/0!	19.7	0.001
7	10/2/2002	14:19	75.1	28.79	4	72.8	3.76	24.54	6.67	0.02	#DIV/0!	23.3	0.001
8	10/3/2002	9:50	70.1	28.79	1	70.4	0.94	25.48	8.00	0.02	#DIV/0!	24.2	0.001
9	10/4/2002	10:44	73.4	28.76	1	70.5	0.94	26.42	9.43	0.02	#DIV/0!	25.1	0.001
10	10/7/2002	11:17	64.5	28.85	3	67.2	2.85	29.28	12.70	0.03	#DIV/0!	27.8	0.001
11	10/8/2002	9:31	52.8	28.94	2	64.0	1.92	31.20	13.55	0.03	#DIV/0!	29.6	0.001
12	10/9/2002	12:31	69.7	28.88	13	74.1	12.22	43.42	14.51	0.04	#DIV/0!	41.3	0.001
13	10/10/2002	11:32	67.8	28.91	0	74.5	0.00	43.42	15.29	0.04	#DIV/0!	41.3	0.001
14	10/11/2002	10:33	67.0	28.85	1	68.0	0.95	44.37	16.02	0.04	#DIV/0!	42.2	0.001
15	10/11/2002	18:52	71.1	28.82	-5	72.7	-4.70	39.67	16.28	0.04	#DIV/0!	37.7	0.001
16	10/12/2002	13:14	74.3	29.56	1	71.5	0.97	40.63	16.83	0.04	#DIV/0!	38.6	0.001
17	10/13/2002	14:18	72.8	29.62	0	71.0	0.00	40.63	17.56	0.04	#DIV/0!	38.6	0.001
18	10/14/2002	13:58	73.2	29.83	-1	70.4	-0.98	39.66	18.22	0.04	#DIV/0!	37.7	0.001
19	10/15/2002	15:03	74.0	29.71	1	70.0	0.97	40.63	18.90	0.04	#DIV/0!	38.6	0.001
20	10/16/2002	14:43	73.3	29.15	2	70.5	1.91	42.54	19.52	0.04	#DIV/0!	40.4	0.001
21	10/17/2002	13:40	73.3	29.41	-1	70.3	-0.96	41.58	20.09	0.04	#DIV/0!	39.5	0.001
22	10/18/2002	14:05	73.8	29.65	-1	70.1	-0.97	40.61	20.69	0.04	#DIV/0!	38.6	0.001
23	10/19/2002	14:45	74.4	29.56	-1	70.1	-0.97	39.64	21.28	0.04	#DIV/0!	37.7	0.001
24	10/20/2002	14:32	73.1	29.47	0	70.2	0.00	39.64	21.83	0.04	#DIV/0!	37.7	0.001
25	10/21/2002	15:46	73.2	29.65	0.5	69.7	0.49	40.12	22.40	0.04	#DIV/0!	38.2	0.001
26	10/22/2002	14:02	74.2	28.71	-2	70.1	-1.88	38.24	22.89	0.03	#DIV/0!	36.4	0.001
27	10/23/2002	16:49	73.7	29.77	0.5	69.9	0.49	38.73	23.47	0.03	#DIV/0!	36.8	0.001
28	10/24/2002	14:18	73.4	29.88	0	69.3	0.00	38.73	23.93	0.03	#DIV/0!	36.8	0.001
29	10/25/2002	15:14	74.3	29.85	0	69.2	0.00	38.73	24.44	0.03	#DIV/0!	36.8	0.001
30	10/26/2002	16:57	73.4	29.44	2	70.0	1.93	40.66	24.96	0.04	#DIV/0!	38.7	0.001
31	10/28/2002	11:52	75.2	29.65	0	69.9	0.00	40.66	25.81	0.04	#DIV/0!	38.7	0.001
32	10/29/2002	13:00	73.4	29.59	0	69.2	0.00	40.66	26.29	0.04	#DIV/0!	38.7	0.001
33	10/30/2002	15:14	73.4	29.41	0	68.9	0.00	40.66	26.78	0.04	#DIV/0!	38.7	0.001
34	10/31/2002	13:18	74.3	29.56	-2	69.3	-1.94	38.72	27.19	0.03	#DIV/0!	36.8	0.001
35	11/1/2002	14:46	73.4	29.50	0	69.3	0.00	38.72	27.66	0.03	#DIV/0!	36.8	0.001
36	11/4/2002	14:16	73.4	29.53	0	68.9	0.00	38.72	28.92	0.03	#DIV/0!	36.8	0.001
37	11/5/2002	13:47	73.4	29.59	0	69.3	0.00	38.72	29.32	0.03	#DIV/0!	36.8	0.001
38	11/6/2002	15:02	73.4	29.12	2	69.9	1.91	40.63	29.75	0.04	#DIV/0!	38.6	0.001
39	11/7/2002	13:51	73.4	29.62	-2	69.5	-1.95	38.68	30.13	0.03	#DIV/0!	36.8	0.001
40	11/8/2002	12:21	73.1	29.62	0	69.4	0.00	38.68	30.50	0.03	#DIV/0!	36.8	0.001

Pittsburgh Coal bed

Canister 1 – WV-02-B3-4

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	29.7	Raw total gas (cc/g)	0.02	
Well ID:	306-061 (Pittsburgh)	Can no.	WV-02-B3-4	Milliliters/gram raw coal:	0.02	DAF total gas (cc/g)	#DIV/0!
Sample Interval (ft):	From: 433.85	To:	434.35	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	0.53
Core Date: (mm/dd/yr)	9/30/2002		(excluding lost gas)	Lost gas estimate (cc)	0	DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	17:52		(from lost gas graph)	Cuttings correction 25% (SCF/ton)	N/A		
Raw coal mass (air-dry): (grams)	1803						
Coal mass (d.a.f.): (grams)							
Headspace volume: (cc)	0						

Sample Type

☒ Core ☐ Cuttings

Data Summary

☒ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace	
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		Clock			Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
		HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	@ STP	Content
In Can	9/30/2002	18:14	86.9	28.91	0		0.00	0.00	0.61	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:21	69.1	28.85	6	70.9	5.67	5.67	0.70	0.00	#DIV/0!	5.4	0.000
2	9/30/2002	18:31	68.6	28.85	0	71.5	0.00	5.67	0.81	0.00	#DIV/0!	5.4	0.000
3	9/30/2002	19:05	66.8	28.85	-2	71.0	-1.89	3.78	1.10	0.00	#DIV/0!	3.6	0.000
4	9/30/2002	19:41	69.5	28.85	0	71.2	0.00	3.78	1.35	0.00	#DIV/0!	3.6	0.000
5	10/1/2002	11:00	70.0	28.90	-2	68.0	-1.90	1.88	4.14	0.00	#DIV/0!	1.8	0.000
6	10/2/2002	8:43	67.0	28.91	2	71.8	1.89	3.77	6.23	0.00	#DIV/0!	3.6	0.000
7	10/2/2002	14:20	75.0	28.79	4	73.2	3.76	7.52	6.67	0.00	#DIV/0!	7.1	0.000
8	10/3/2002	9:32	70.0	28.79	1	70.0	0.94	8.47	7.98	0.00	#DIV/0!	8.0	0.000
9	10/4/2002	10:45	73.4	28.76	0	70.5	0.00	8.47	9.43	0.00	#DIV/0!	8.0	0.000
10	10/7/2002	11:10	64.5	28.85	10	67.2	9.52	17.98	12.70	0.01	#DIV/0!	17.1	0.001
11	10/8/2002	9:32	52.8	28.94	2	64.2	1.92	19.90	13.55	0.01	#DIV/0!	18.9	0.001
12	10/9/2002	12:29	69.7	28.88	12	74.1	11.28	31.19	14.51	0.02	#DIV/0!	29.7	0.001
13	10/9/2002	15:55	73.0	28.91	-1	73.0	-0.94	30.24	14.63	0.02	#DIV/0!	28.8	0.001
14	10/10/2002	11:31	67.8	28.91	-2	74.5	-1.88	28.36	15.29	0.02	#DIV/0!	27.0	0.001
15	10/11/2002	10:34	67.0	28.85	-2	68.0	-1.90	26.46	16.02	0.01	#DIV/0!	25.2	0.001

Canister 2 – WV-02-US4-30

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	19.7	Raw total gas (cc/g)	0.01	
Well ID:	306-061 (Pittsburgh)	Can no.	WV-02-US4-30	Milliliters/gram raw coal:	0.01	DAF total gas (cc/g)	#DIV/0!
Sample Interval (ft):	From: 434.35	To:	436.35	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	0.29
Core Date: (mm/dd/yr)	9/30/2002		(excluding lost gas)	Lost gas estimate (cc)	0	DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	17:52		(from lost gas graph)	Cuttings correction 25% (SCF/ton)	N/A		
Raw coal mass (air-dry): (grams)	2173						
Coal mass (d.a.f.): (grams)							
Headspace volume: (cc)	0						

Sample Type

☒ Core ☐ Cuttings

Data Summary

☒ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace	
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		Clock			Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
		HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	@ STP	Content
In Can	9/30/2002	18:12	86.9	28.91	0		0.00	0.00	0.58	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:20	69.8	28.85	0	74.1	0.00	0.00	0.68	0.00	#DIV/0!	0.0	0.000
2	9/30/2002	18:35	69.1	28.85	-2	80.9	-1.86	-1.86	0.85	0.00	#DIV/0!	-1.8	0.000
3	9/30/2002	19:02	66.2	28.85	1	79.6	0.93	-0.93	1.08	0.00	#DIV/0!	-0.9	0.000
4	9/30/2002	19:44	69.5	28.85	2	78.8	1.86	0.94	1.37	0.00	#DIV/0!	0.9	0.000
5	10/1/2002	10:58	67.8	28.91	-2	68.2	-1.90	-0.97	4.14	0.00	#DIV/0!	-0.9	0.000
6	10/2/2002	8:48	67.4	28.91	1	71.0	0.95	-0.02	6.24	0.00	#DIV/0!	0.0	0.000
7	10/2/2002	14:28	74.5	28.79	2	72.7	1.88	1.86	6.68	0.00	#DIV/0!	1.8	0.000
8	10/3/2002	9:35	70.0	28.79	1	70.3	0.94	2.80	7.98	0.00	#DIV/0!	2.7	0.000
9	10/4/2002	10:51	70.4	28.73	1	70.5	0.94	3.75	9.43	0.00	#DIV/0!	3.6	0.000
10	10/7/2002	10:52	70.0	28.85	1	69.9	0.95	4.69	12.69	0.00	#DIV/0!	4.5	0.000
11	10/8/2002	9:41	52.6	29.04	2	65.2	1.92	6.62	13.56	0.00	#DIV/0!	6.3	0.000
12	10/9/2002	15:54	72.1	28.91	15	82.6	13.90	20.51	14.63	0.01	#DIV/0!	19.7	0.001
13	10/10/2002	11:21	72.3	28.91	-6	68.1	-5.71	14.80	15.28	0.01	#DIV/0!	14.4	0.001
14	10/11/2002	10:37	66.0	28.85	-7	68.0	-6.65	8.15	16.02	0.00	#DIV/0!	8.0	0.000

Pittsburgh coal bed, con't.

Canister 3 – WV-02-US4-14

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	36.9	Raw total gas (cc/g)	0.02		
Well ID:	306-061 (Pittsburgh)	Can no.	WV-02-US4-14	Milliliters/gram raw coal:	0.02	DAF total gas (cc/g)	#DIV/0!	
Sample Interval (ft):	From: 436.35	To:	438.35	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	0.52	
Core Date: (mm/dd/yr)	9/30/2002		17:52	(excluding lost gas)	Lost gas estimate (cc)	0	DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	2282		0	(from lost gas graph)	Cuttings correction 25% (SCF/ton)	N/A		
Raw coal mass (air-dry): (grams)								
Coal mass (d.a.f.): (grams)								
Headspace volume: (cc)								

Sample Type

☒ Core ☐ Cuttings

Data Summary

☐ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f. Coal Mass	Headspace Correction Cumulative Volume @ STP	Cumulative Gas Content (SCF)
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	9/30/2002	18:10	86.9	28.91	0		0.00	0.00	0.55	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:19	69.8	28.85	0	82.3	0.00	0.00	0.67	0.00	#DIV/0!	0.0	0.000
2	9/30/2002	18:35	69.1	28.85	0	80.9	0.00	0.00	0.85	0.00	#DIV/0!	0.0	0.000
3	9/30/2002	19:02	66.2	28.85	1	79.6	0.93	0.93	1.08	0.00	#DIV/0!	0.9	0.000
4	9/30/2002	19:43	69.5	28.85	2	78.8	1.86	2.79	1.36	0.00	#DIV/0!	2.7	0.000
5	10/1/2002	10:58	67.8	28.81	1	68.2	0.95	3.74	4.14	0.00	#DIV/0!	3.6	0.000
6	10/2/2002	8:47	67.4	28.91	2	71.0	1.89	5.63	6.24	0.00	#DIV/0!	5.4	0.000
7	10/2/2002	14:28	74.5	28.79	3	72.7	2.82	8.45	6.68	0.00	#DIV/0!	8.1	0.000
8	10/3/2002	9:36	70.0	29.79	2	70.3	1.95	10.41	7.98	0.00	#DIV/0!	9.9	0.000
9	10/4/2002	10:51	70.4	28.73	2	70.5	1.88	12.29	9.43	0.01	#DIV/0!	11.7	0.000
10	10/7/2002	10:52	70.0	28.85	2	69.9	1.89	14.18	12.69	0.01	#DIV/0!	13.5	0.000
11	10/8/2002	9:40	52.6	29.06	4	65.2	3.85	18.03	13.56	0.01	#DIV/0!	17.2	0.001
12	10/9/2002	15:53	72.1	28.91	22	82.6	20.38	38.42	14.63	0.02	#DIV/0!	36.9	0.001
13	10/10/2002	11:21	72.3	28.91	-4	68.1	-3.81	34.61	15.28	0.02	#DIV/0!	33.3	0.001
14	10/11/2002	10:37	66.0	28.85	-4	67.0	-3.81	30.80	16.02	0.01	#DIV/0!	29.7	0.001
15	stopped analyses												

Canister 4 – WV-02-US4-8

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	25.3	Raw total gas (cc/g)	0.01		
Well ID:	306-061 (Pittsburgh)	Can no.	WV-02-US4-8	Milliliters/gram raw coal:	0.01	DAF total gas (cc/g)	#DIV/0!	
Sample Interval (ft):	From: 438.35	To:	440.35	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	0.36	
Core Date: (mm/dd/yr)	9/30/2002		17:52	(excluding lost gas)	Lost gas estimate (cc)	0	DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	2275		0	(from lost gas graph)	Cuttings correction 25% (SCF/ton)	N/A		
Raw coal mass (air-dry): (grams)								
Coal mass (d.a.f.): (grams)								
Headspace volume: (cc)								

Sample Type

☒ Core ☐ Cuttings

Data Summary

☐ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f. Coal Mass	Headspace Correction Cumulative Volume @ STP	Cumulative Gas Content (SCF)
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	9/30/2002	18:08	86.9	28.91	0		0.00	0.00	0.52	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:18	69.8	28.85	0	82.3	0.00	0.00	0.66	0.00	#DIV/0!	0.0	0.000
2	9/30/2002	18:34	69.1	28.85	0	80.9	0.00	0.00	0.84	0.00	#DIV/0!	0.0	0.000
3	9/30/2002	19:01	66.2	28.85	1	79.6	0.93	0.93	1.07	0.00	#DIV/0!	0.9	0.000
4	9/30/2002	19:43	69.5	28.85	2	78.8	1.86	2.79	1.36	0.00	#DIV/0!	2.7	0.000
5	10/1/2002	10:57	67.8	28.91	1	68.2	0.95	3.74	4.13	0.00	#DIV/0!	3.6	0.000
6	10/2/2002	8:46	67.4	28.91	3	71.1	2.84	6.58	6.24	0.00	#DIV/0!	6.3	0.000
7	10/2/2002	14:27	74.5	28.79	3	72.7	2.82	9.40	6.68	0.00	#DIV/0!	9.0	0.000
8	10/3/2002	9:36	70.0	28.79	2	70.3	1.89	11.29	7.98	0.00	#DIV/0!	10.7	0.000
9	10/4/2002	10:50	70.4	28.73	1	70.5	0.94	12.23	9.43	0.01	#DIV/0!	11.6	0.000
10	10/7/2002	10:51	70.0	28.85	2	69.9	1.89	14.13	12.69	0.01	#DIV/0!	13.4	0.000
11	10/8/2002	9:39	52.6	29.66	5	65.2	4.91	19.04	13.56	0.01	#DIV/0!	18.2	0.001
12	10/9/2002	15:52	72.1	28.91	8	82.6	7.41	26.45	14.63	0.01	#DIV/0!	25.3	0.001
13	10/10/2002	11:19	72.3	28.91	-4	68.1	-3.81	22.64	15.28	0.01	#DIV/0!	21.8	0.001
14	10/11/2002	10:37	66.0	28.85	-3	68.0	-2.85	19.79	16.02	0.01	#DIV/0!	19.0	0.001

Pittsburgh Coal bed con't.

Canister 5 – WV-02-US4-6

Project	DOE/MVGES/USGS		Cumulative volume @ STP:	51.3	Raw total gas (cc/g)	0.02
Well ID	306-061 (Pittsburgh)	Can no. WV-02-US4-6	Milliliters/gram raw coal:	0.02	DAF total gas (cc/g)	#DIV/0!
Sample Interval (ft):	From: 440.35	To: 442.35	Milliliter/gram coal d.a.f.:	#DIV/0!	Raw total gas (SCF/ton)	0.73
Core Date: (mm/dd/yr)	9/30/2002		(excluding lost gas)		DAF total gas (SCF/ton)	#DIV/0!
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	17:52		Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	2249		(from lost gas graph)			
Coal mass (d.a.f.): (grams)						
Headspace volume: (cc)	0					

Sample Type

☒ Core ☐ Cuttings

Data Summary

☐ Preliminary ☒ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal Mass	ml/g d.a.f. Coal Mass	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})			(milliliter)	(SCF)
In Can	9/30/2002	18:07	86.9	28.91	0		0.00	0.00	0.50	0.00	#DIV/0!	0.0	0.0
1	9/30/2002	18:18	69.8	28.85	0	82.3	0.00	0.00	0.66	0.00	#DIV/0!	0.0	0.000
2	9/30/2002	18:34	69.1	28.85	0	80.9	0.00	0.00	0.84	0.00	#DIV/0!	0.0	0.000
3	9/30/2002	19:00	66.2	28.85	3	79.6	2.79	2.79	1.06	0.00	#DIV/0!	2.7	0.000
4	9/30/2002	19:41	69.5	28.85	3	78.8	2.79	5.58	1.35	0.00	#DIV/0!	5.4	0.000
5	10/1/2002	10:55	67.8	28.91	2	68.2	1.90	7.49	4.13	0.00	#DIV/0!	7.2	0.000
6	10/2/2002	8:46	67.4	28.91	6	71.1	5.68	13.17	6.24	0.01	#DIV/0!	12.6	0.000
7	10/2/2002	14:25	74.5	28.79	5	72.7	4.70	17.87	6.67	0.01	#DIV/0!	17.0	0.001
8	10/3/2002	9:37	70.0	28.79	3	70.3	2.83	20.70	7.98	0.01	#DIV/0!	19.7	0.001
9	10/4/2002	10:50	70.4	28.73	3	70.5	2.83	23.52	9.43	0.01	#DIV/0!	22.4	0.001
10	10/7/2002	10:50	70.0	28.85	3	69.9	2.84	26.36	12.69	0.01	#DIV/0!	25.1	0.001
11	10/8/2002	9:36	52.6	28.94	9	65.2	8.62	34.99	13.55	0.02	#DIV/0!	33.4	0.001
12	10/9/2002	15:50	72.3	28.91	20	82.6	18.53	53.52	14.63	0.02	#DIV/0!	51.3	0.002
13	10/10/2002	11:18	67.8	28.91	-4	68.1	-3.81	49.71	15.28	0.02	#DIV/0!	47.7	0.002
14	10/11/2002	10:35	66.0	28.85	-3	67.0	-2.86	46.85	16.02	0.02	#DIV/0!	45.0	0.002

Canister 1 – WV-02-CB3-2

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)														Headspace Correction	
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Cumulative Volume @ STP	Cumulative Gas Content		
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(hrs ^{1/2})	Coal Mass	Coal Mass	(milliliter)	(SCF)		
In Can	10/1/2002	14:00	78.8	28.91	0		0.00	0.00	0.45	0.00	0.00	0.0	0.0		
1	10/1/2002	14:09	76.0	28.85	13	72.7	12.24	12.24	0.59	0.02	0.04	11.5	0.000		
2	10/1/2002	14:19	76.0	28.85	4	73.0	3.77	16.01	0.72	0.03	0.05	15.0	0.001		
3	10/1/2002	14:29	76.9	28.85	1	73.1	0.94	16.95	0.83	0.03	0.05	15.9	0.001		
4	10/1/2002	14:45	76.6	28.85	1	73.1	0.94	17.89	0.97	0.03	0.05	16.8	0.001		
5	10/1/2002	15:15	77.3	28.85	2	73.1	1.88	19.77	1.20	0.03	0.06	18.6	0.001		
6	10/1/2002	15:44	77.7	28.85	5	73.3	4.70	24.48	1.39	0.04	0.07	23.0	0.001		
7	10/1/2002	16:39	78.2	28.85	4	75.9	3.74	28.22	1.69	0.04	0.08	26.5	0.001		
8	10/1/2002	17:39	78.3	28.82	11	73.9	10.33	38.55	1.96	0.06	0.11	36.2	0.001		
9	10/1/2002	18:39	77.7	28.85	5	74.1	4.70	43.24	2.20	0.07	0.13	40.6	0.001		
10	10/1/2002	19:30	76.2	28.88	2	74.3	1.88	45.12	2.39	0.07	0.13	42.4	0.001		
11	10/2/2002	8:39	68.8	28.91	8	71.6	7.57	52.69	4.34	0.08	0.16	49.6	0.002		
12	10/2/2002	14:22	75.0	28.79	19	73.4	17.83	70.52	4.96	0.11	0.21	66.4	0.002		
13	10/3/2002	9:50	70.1	28.79	1	71.4	0.94	71.46	6.64	0.11	0.21	67.3	0.002		
14	10/4/2002	10:39	73.4	28.79	19	72.0	17.88	89.35	8.30	0.14	0.26	84.1	0.003		
15	10/7/2002	11:20	64.5	28.85	8	67.2	7.61	96.96	11.90	0.15	0.29	91.4	0.003		
16	10/8/2002	9:29	52.2	28.94	-5	64.0	-4.80	92.16	12.79	0.14	0.27	86.7	0.003		
17	10/9/2002	12:32	69.7	28.88	100	74.1	94.03	186.19	13.81	0.29	0.55	176.4	0.006		
18	10/10/2002	11:28	67.8	28.91	48	74.5	45.15	231.33	14.62	0.36	0.68	219.6	0.008		
19	10/11/2002	10:31	67.0	28.85	0	68.0	0.00	231.33	15.39	0.36	0.68	219.6	0.008		
20	10/11/2002	18:52	71.1	28.82	-20	72.7	-18.82	212.52	15.65	0.33	0.63	201.8	0.007		
21	10/12/2002	13:15	74.3	29.56	2	71.5	1.93	214.45	16.23	0.34	0.63	203.6	0.007		
22	10/13/2002	14:19	72.8	29.62	4	71.0	3.88	218.33	16.99	0.34	0.64	207.2	0.007		
23	10/14/2002	13:59	72.3	29.83	-4	70.4	-3.91	214.42	17.67	0.34	0.63	203.6	0.007		
24	10/15/2002	15:04	74.0	29.71	7	70.0	6.82	221.24	18.36	0.35	0.65	210.0	0.007		
25	10/16/2002	14:43	73.3	29.15	21	70.5	20.07	241.31	19.00	0.38	0.71	228.8	0.008		
26	10/17/2002	13:40	73.3	29.41	0	70.3	0.00	241.31	19.59	0.38	0.71	228.8	0.008		
27	10/18/2002</														

Canister 1 – WV-02-B3-

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	1170.2	Raw total gas (cc/g)	1.96	
Well ID:	306-061 (Elklick)	Can no.	WV-02-B3-6				
Sample Interval (ft):	From: 659.93	To:	660.6	Milliliters/gram raw coal:	1.86	DAF total gas (cc/g)	2.59
Core Date:	(mm/dd/yr)		10/1/2002				
Time Zero-Cool penetrated (hh:mm) (24 hour clock)			15:20	Milliliter/gram coal d.a.f.:	2.46	Raw total gas (SCF/ton)	62.68
Raw coal mass (air-dry): (grams)			628	(excluding lost gas)			
Coal mass (d.a.f.): (grams)			475	Lost gas estimate (cc)	60	DAF total gas (SCF/ton)	82.88
Headspace volume: (cc)			0	(from lost gas graph)			
Sample Type			Cuttings correction 25% (SCF/ton)				
<input checked="" type="checkbox"/> Core <input type="checkbox"/> Cuttings			Data Summary <input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final Results				

Enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)														Headspace Correction		
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	m/gRaw Coal	m/g d.a.f Coal	Cumulative Volume @ STP	Cumulative Gas Content			
	(mm/dd/yy)	HH:MM	° F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)			
In Can	10/2/2002	15:31	77.9	28.79	0		0.00	0.00	4.92	0.00	0.00	0.0	0.0			
1	10/2/2002	15:41	77.9	28.79	4	73.1	26.30	26.30	4.93	0.06	0.06	24.9	0.01			
2	10/2/2002	15:51	71.8	28.79	4	72.9	3.76	30.05	4.95	0.05	0.06	28.5	0.001			
3	10/2/2002	16:01	72.4	28.79	3	72.9	2.82	32.87	4.97	0.05	0.07	31.1	0.001			
4	10/2/2002	16:13	72.6	28.79	3	73.0	2.82	35.69	4.99	0.06	0.08	33.8	0.001			
5	10/2/2002	16:43	72.8	28.79	8	72.9	7.52	43.21	5.04	0.07	0.09	40.9	0.001			
6	10/2/2002	17:43	71.2	28.79	8	72.5	7.52	50.73	5.14	0.08	0.11	48.0	0.002			
7	10/2/2002	18:43	73.6	28.76	7	72.8	6.57	57.30	5.23	0.09	0.12	54.3	0.002			
8	10/2/2002	19:07	74.5	28.76	4	73.1	3.75	61.05	5.27	0.10	0.13	57.8	0.002			
9	10/3/2002	9:08	74.0	28.79	10	69.8	9.45	70.50	6.47	0.11	0.15	66.7	0.002			
10	10/4/2002	10:36	73.3	28.76	46	70.5	43.37	113.87	8.20	0.18	0.24	107.4	0.004			
11	10/4/2002	12:54	74.0	28.67	14	71.2	13.14	127.01	8.34	0.20	0.27	119.8	0.004			
12	10/7/2002	11:22	64.5	28.85	44	67.2	41.87	168.88	11.83	0.27	0.36	159.6	0.006			
13	10/8/2002	9:24	52.2	28.94	25	64.0	24.01	192.89	12.73	0.31	0.41	182.8	0.006			
14	10/8/2002	16:06	73.5	29.03	16	69.5	15.25	208.14	12.99	0.33	0.44	197.7	0.007			
15	10/8/2002	16:06	70.7	28.97	4	70.0	3.80	211.95	13.09	0.34	0.45	200.7	0.007			
16	10/9/2002	12:37	62.5	28.88	66	74.1	62.06	274.01	13.76	0.44	0.58	259.9	0.009			
17	10/9/2002	17:53	72.5	28.91	21	71.1	19.88	293.89	13.95	0.47	0.62	278.7	0.010			
18	10/10/2002	11:25	67.8	28.91	16	74.5	15.05	308.93	14.36	0.49	0.65	293.1	0.010			
19	10/11/2002	10:29	67.2	29.85	6	68.0	5.90	314.83	15.53	0.50	0.66	298.7	0.011			
20	10/11/2002	18:53	71.2	28.82	4	72.7	3.76	318.60	15.61	0.51	0.67	302.2	0.011			
21	10/12/2002	13:16	74.3	29.56	6	71.5	5.80	324.40	16.18	0.52	0.68	307.7	0.011			
22	10/13/2002	14:19	72.8	29.62	12	71.0	11.64	336.04	16.94	0.54	0.71	318.7	0.011			
23	10/14/2002	13:59	73.2	29.83	10	70.4	9.78	345.82	17.63	0.55	0.73	327.9	0.012			
24	10/15/2002	15:04	74.0	29.71	9	70.0	8.77	354.59	18.32	0.56	0.75	336.1	0.012			
25	10/16/2002	14:44	73.3	29.15	14	70.5	13.38	367.97	18.96	0.59	0.77	348.7	0.012			
26	10/17/2002	13:43	73.3	29.41	10	70.2	9.65	377.62	19.55	0.60	0.79	357.7	0.013			
27	10/18/2002	14:09	73.8	29.65	10	70.1	9.73	387.34	20.17	0.62	0.82	366.9	0.013			
28	10/19/2002	14:46	74.4	29.56	8	70.1	7.76	395.10	20.77	0.63	0.83	374.2	0.013			
29	10/20/2002	14:36	73.1	29.47	10	70.2	9.67	404.77	21.34	0.64	0.85	383.2	0.014			
30	10/21/2002	15:48	73.2	29.65	8	69.7	7.79	412.55	21.92	0.66	0.87	390.6	0.014			
31	10/22/2002	14:04	73.2	29.91	9	69.9	8.78	421.33	22.42	0.67	0.88	398.8	0.014			
32	10/23/2002	16:52	73.7	29.77	10	69.9	9.77	431.10	23.01	0.69	0.91	408.0	0.014			
33	10/24/2002	14:20	73.4	29.88	9	69.3	8.84	439.93	23.47	0.70	0.93	416.3	0.015			
34	10/25/2002	15:15	74.3	29.85	10	69.2	9.81	449.74	24.00	0.72	0.95	425.4	0.015			
35	10/26/2002	16:59	73.4	29.44	11	70.0	10.63	460.37	24.53	0.73	0.97	435.4	0.015			
36	10/28/2002	11:54	75.2	29.65	12	69.9	11.68	472.04	25.39	0.75	0.99	446.4	0.016			
37	10/29/2002	13:02	73.4	29.59	9	69.2	8.75	480.80	25.88	0.77	1.01	456.6	0.016			
38	10/30/2002	15:15	73.4	29.41	9	68.9	8.70	489.50	26.38	0.78	1.03	462.7	0.016			
39	10/31/2002	13:19	74.3	29.56	69.3	0.00	489.50	26.80	0.78	1.03	462.7	0.016				
40	11/1/2002	14:47	73.4	29.50	18	69.3	17.45	506.94	27.27	0.81	1.07	479.1	0.017			
41	11/4/2002	14:18	73.4	29.53	12	68.9	11.65	518.60	28.55	0.83	1.09	490.0	0.017			
42	11/5/2002	13:48	73.4	29.59	9	69.3	8.75	527.35	28.96	0.84	1.11	498.2	0.018			
43	11/6/2002	15:04	73.4	29.12	10	69.9	9.56	536.90	29.39	0.85	1.13	507.2	0.018			
44	11/7/2002	13:53	73.4	29.62	6	69.5	5.84	542.74	29.77	0.86	1.14	512.7	0.018			
45	11/8/2002	12:22	73.1	29.62	5	69.4	4.86	547.60	30.15	0.87	1.15	517.3	0.018			
46	11/12/2002	13:15	74.3	29.50	21	70.7	20.30	567.90	31.72	0.90	1.20	536.3	0.019			
47	12/3/2002	14:51	74.3	29.91	48	68.9	47.20	615.11	38.98	0.98	1.29	580.5	0.021			
48	12/5/2002	11:35	74.3	29.53	28	69.1	27.18	642.28	39.45	1.02	1.35	605.0	0.021			
49	12/9/2002	9:40	74.3	30.12	18	69.1	17.82	660.10	40.62	1.05	1.39	622.6	0.022			
50	12/11/2002	10:22	74.3	29.50	17	69.4	16.47	676.57	41.22	1.08	1.42	638.1	0.023			
51	12/16/2002	7:32	73.4	29.23	20	68.9	19.22	695.80	42.62	1.11	1.46	656.1	0.023			
52	12/18/2002	8:47	74.3	30.00	10	68.8	9.87	705.66	43.19	1.12	1.49	665.3	0.023			
53	12/20/2002	8:10	73.4	29.06	15	70.1	14.30	719.96	43.74	1.15	1.52	678.8	0.024			
54	12/23/2002	7:06	73.4	29.50	10	68.9	9.70	729.66	44.54	1.16	1.54	687.8	0.024			
55	12/27/2002	6:49	73.4	29.80	11	68.9	10.78	740.44	45.60	1.18	1.56	698.0	0.025			
56	12/30/2002	14:20	74.3	29.68	14	69.1	13.66	754.10	46.47	1.20	1.59	710.7	0.025			
57	1/2/2003	13:43	73.4	29.47	13	68.6	12.60	766.70	47.23	1.22	1.61	722.6	0.026			
58	1/6/2003	12:47	74.3	29.41	15	68.8	14.51	781.21	48.22	1.24	1.64	736.1	0.026			
59	1/9/2003	15:41	72.5	28.94	16	68.8	15.23	796.43	48.99	1.27	1.68	750.4	0.027			
60	1/13/2003	14:10	73.4	29.41	12	68.5	11.61	808.05	49.95	1.29	1.70	761.3	0.027			
61	1/17/2003	9:26	73.4	29.41	14	68.6	13.55	821.59	50.85	1.31	1.73	774.0	0.027			
62	1/21/2003	14:13	71.6	29.50	12	68.1	11.65	833.25	51.84	1.33	1.75	784.9	0.028			
63	1/24/2003	9:44	73.4	29.91	13	68.1	8.81	842.06	52.53	1.37	1.77	793.2	0.028			
64	1/30/2003	12:22	73.4	29.91	13	68.8	12.79	854.84	53.83	1.38	1.80	805.2	0.028			
65	2/11/2003	13:12	74.3	29.38	28	69.2	27.03	881.87	56.48	1.40	1.86	830.5	0.029			
66	2/20/2003	11:22	72.5	29.83	21	68.8	20.60	902.47	58.34	1.44	1.90	849.9	0.030			
67	2/27/2003	15:04	74.3	29.59	21	68.8	20.43	922.91	59.80	1.47	1.94	869.0	0.031			
68	3/7/2003	12:26	74.3	29.80	17	68.9	16.66	939.57	61.36	1.50	1.98	884.6	0.031			
69	3/13/2003	15:20	72.5	29.65	18	69.1	17.35	956.91	62.55	1.52	2.01	901.9	0.032			
70	3/28/2003	12:45	72.5	29.32	23	70.0	22.38	979.29	65.34	1.56	2.06	929.9	0.033			
71	4/9/2003	10:39	73.6	29.59	23	69.9	22.33	1001.62	67.49	1.59	2.11	942.9	0.033			
72	4/29/2003	12:00	74.3	29.41	30	70.5	28.92	1030.54	70.97	1.64	2.17	970.0	0.034			
73	5/21/2003	14:04	74.3	29.62	35	70.9	33.96	1064.50	74.61	1.70	2.24	1002.0	0.035			
74	6/16/2003	13:11	74.3	29.65	38	72.1	36.82	1101.32	78.68	1.75	2.32	1036.6	0.037			
75	7/28/2003	10:22	74.3	29.38	47	71.6	45.17	1146.49	84.82	1.83	2.41	1079.1	0.038			
76	8/8/2003	12:27	74.3	29.50	27.5	73.6	26.53	1173.02	97.58	1.92	2.47	1103.2	0.039			
77	11/25/2003	11:57	73.4	29.71	50	69.3	48.81	1221.82	100.38	1.95	2.57	1150.0	0.041			
78	12/8/2003	10:16	72.5	29.71	22	72.5	21.35	1243.16	101.92	1.98	2.62	1170.2	0.041			
79	Stopped experiment															
80	Measured ash content - 24.3%															
81																

Brush Creek coal bed

Canister 1 – WV-02-B3-

Project **DOE/WVGES/USGS**
 Well ID: **306-061 (Brush Creek - Shalejo)** **WV-02-B3-7**
 Sample Interval (ft): From: **920.4** To: **921.1**
 Core Date: (mm/dd/yr) **10/7/2002**
 Time Zero-Coal penetrated (hh:mm) (24 hour clock) **17:46**
 Raw coal mass (air-dry): (grams) **866**
 Coal mass (d.a.f.): (grams) **315**
 Headspace volume: (cc) **0**

Cumulative volume @ STP: **1108.8** Raw total gas (cc/g) **1.28**
 Milliliters/gram raw coal: **1.28** DAF total gas (cc/g) **3.52**
 Milliliter/gram coal d.a.f.: **3.52** Raw total gas (SCF/ton) **40.97**
 (excluding lost gas)
 Lost gas estimate (cc) **0** DAF total gas (SCF/ton) **112.64**
 (from lost gas graph)
 Cuttings correction 25% (SCF/ton) **N/A**

Sample Type ☒ Core ☐ Cuttings **Data Summary** ☒ Preliminary ☐ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time (Hrs ^{0.5})	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
In Can	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)		Mass	Mass	(milliliter)	(SCF)
1	10/7/2002	18:00	78.5	28.79	0	66.1	0.00	0.00	0.48	0.00	0.00	0.0	0.0
2	10/7/2002	18:02	78.5	28.79	23	72.5	21.62	21.62	0.52	0.02	0.07	20.2	0.001
3	10/7/2002	18:12	78.5	28.79	7	72.5	6.58	28.21	0.66	0.03	0.09	26.4	0.001
4	10/7/2002	18:22	78.5	28.79	2	72.5	1.88	30.09	0.77	0.03	0.10	28.1	0.001
5	10/7/2002	18:32	78.5	28.79	3	72.3	2.82	32.91	0.88	0.04	0.10	30.8	0.001
6	10/7/2002	19:06	78.5	28.82	4	72.2	3.77	36.67	1.15	0.04	0.12	34.3	0.001
7	10/8/2002	9:19	52.2	28.94	19	64.0	18.25	54.92	3.94	0.06	0.17	51.9	0.002
8	10/8/2002	12:49	63.4	28.97	20	73.1	18.90	73.82	4.36	0.09	0.23	70.1	0.002
9	10/8/2002	15:40	72.7	29.03	12	71.3	11.40	85.22	4.68	0.10	0.27	80.9	0.003
10	10/8/2002	16:40	71.8	29.03	6	78.3	5.63	90.85	4.79	0.10	0.29	86.3	0.003
11	10/8/2002	18:44	70.7	28.97	6	70.0	5.70	96.56	5.00	0.11	0.31	91.7	0.003
12	10/9/2002	12:42	69.5	28.81	34	74.1	31.89	128.45	6.55	0.15	0.41	122.1	0.004
13	10/9/2002	17:56	72.5	28.91	16	73.0	15.09	143.54	6.94	0.17	0.46	136.4	0.005
14	10/9/2002	19:06	72.4	28.94	4	72.5	3.78	147.32	7.02	0.17	0.47	139.9	0.005
15	10/10/2002	10:58	69.4	28.91	18	70.0	17.07	164.39	8.07	0.19	0.52	156.1	0.006
16	10/10/2002	13:44	69.4	28.51	12	71.1	11.20	175.60	8.24	0.20	0.56	166.7	0.006
17	10/10/2002	15:49	69.5	28.94	9	71.1	8.53	184.12	8.37	0.21	0.58	174.8	0.006
18	10/10/2002	18:12	70.5	28.94	8	71.1	7.58	191.71	8.51	0.22	0.61	182.0	0.006
19	10/11/2002	10:06	64.1	28.85	11	69.9	10.41	202.12	9.40	0.23	0.64	192.0	0.007
20	10/11/2002	12:26	63.5	28.85	5	69.9	4.73	206.85	9.52	0.24	0.66	196.5	0.007
21	10/11/2002	18:53	71.1	28.82	4	72.7	3.76	210.62	9.85	0.24	0.67	200.1	0.007
22	10/12/2002	13:17	74.3	29.56	14	71.5	13.54	224.16	10.75	0.26	0.71	212.8	0.008
23	10/13/2002	14:20	72.8	29.62	21	71.0	20.37	244.53	11.86	0.28	0.78	232.0	0.008
24	10/14/2002	14:00	73.2	29.83	15	70.4	14.67	259.20	12.82	0.30	0.82	245.8	0.009
25	10/15/2002	15:05	74.0	29.71	19	70.0	18.52	277.72	13.76	0.32	0.88	263.2	0.009
26	10/16/2002	14:45	73.3	29.15	20	70.5	19.11	296.83	14.59	0.34	0.94	281.1	0.010
27	10/17/2002	13:43	73.3	29.44	15	70.3	14.48	311.31	15.36	0.36	0.99	294.8	0.010
28	10/18/2002	14:10	73.8	29.65	18	70.1	17.51	328.82	16.14	0.38	1.04	311.2	0.011
29	10/19/2002	14:46	74.4	29.56	11	70.1	10.67	339.49	16.88	0.39	1.08	321.2	0.011
30	10/20/2002	14:39	73.1	29.47	13	70.2	12.57	352.05	17.58	0.41	1.12	333.0	0.012
31	10/21/2002	15:49	73.2	29.65	10	69.7	9.73	361.79	18.28	0.42	1.15	342.2	0.012
32	10/22/2002	14:04	74.2	29.71	12	69.9	11.70	373.49	18.88	0.43	1.19	353.1	0.012
33	10/23/2002	16:53	73.7	29.77	12	69.8	11.73	385.21	19.57	0.44	1.22	364.1	0.013
34	10/24/2002	14:20	73.4	29.88	10	69.3	9.82	395.03	20.11	0.46	1.25	373.4	0.013
35	10/25/2002	15:16	74.3	29.85	10	69.2	9.81	404.84	20.72	0.47	1.29	382.5	0.014
36	10/26/2002	16:59	73.4	29.44	11	70.0	10.63	415.46	21.34	0.48	1.32	392.5	0.014
37	10/28/2002	11:55	75.2	29.65	12	69.9	11.68	427.14	22.32	0.49	1.36	403.5	0.014
38	10/29/2002	13:03	73.4	29.59	10	69.2	9.72	436.86	22.88	0.50	1.39	412.6	0.015
39	10/30/2002	15:16	73.4	29.41	10	68.9	9.67	446.53	23.44	0.52	1.42	421.6	0.015
40	10/31/2002	13:20	74.3	29.56	8	69.3	7.77	454.30	23.91	0.52	1.44	428.9	0.015
41	11/1/2002	14:48	73.4	29.50	11	69.3	10.66	464.96	24.43	0.54	1.48	438.9	0.016
42	11/4/2002	14:19	73.4	29.53	12	68.9	11.65	476.61	25.86	0.55	1.51	449.8	0.016
43	11/5/2002	13:49	73.4	29.59	9	69.3	8.75	485.36	26.31	0.56	1.54	458.1	0.016
44	11/6/2002	15:04	73.4	29.12	10	69.9	9.56	494.92	26.78	0.57	1.57	467.0	0.016
45	11/7/2002	13:54	73.4	29.62	8	69.5	7.78	502.70	27.21	0.58	1.60	474.3	0.017
46	11/8/2002	12:22	73.1	29.62	6	69.4	5.84	508.54	27.62	0.59	1.61	479.8	0.017
47	11/12/2002	13:16	74.3	29.50	17	70.7	16.43	524.97	29.32	0.61	1.67	495.3	0.017
48	12/3/2002	13:51	74.3	29.91	8	68.9	7.87	532.84	36.93	0.62	1.69	502.6	0.018
49	12/5/2002	11:35	74.3	29.53	67	69.1	65.03	597.87	37.55	0.69	1.90	563.5	0.020
50	12/9/2002	9:40	74.3	30.12	32	69.1	31.68	629.55	38.78	0.73	2.00	593.2	0.021
51	12/11/2002	10:23	74.3	29.50	21	69.4	20.35	649.90	39.40	0.75	2.06	612.2	0.022
52	12/16/2002	7:32	73.4	29.23	21	68.9	20.18	670.08	40.86	0.77	2.13	631.2	0.022
53	12/18/2002	8:49	74.3	30.00	11	68.8	10.85	680.93	41.46	0.79	2.16	641.3	0.023
54	12/20/2002	8:11	73.4	29.00	15	70.1	14.27	695.20	42.03	0.80	2.21	654.7	0.023
55	12/23/2002	7:07	73.4	29.50	11	68.9	10.67	705.87	42.86	0.82	2.24	664.7	0.023
56	12/27/2002	6:50	73.4	29.80	14	68.9	13.72	719.59	43.97	0.83	2.28	677.6	0.024
57	12/30/2002	14:21	74.3	29.68	12	69.1	11.71	731.29	44.86	0.84	2.32	688.5	0.024
58	1/2/2003	13:44	73.4	29.47	12	69.6	11.61	742.90	45.65	0.86	2.36	699.4	0.025
59	1/6/2003	12:48	74.3	29.41	14	68.8	13.54	756.45	46.68	0.87	2.40	712.1	0.025
60	1/9/2003	15:41	72.5	28.94	17	68.8	16.18	772.62	47.48	0.89	2.45	727.3	0.026
61	1/13/2003	14:10	73.4	29.41	9	68.5	8.71	781.33	48.46	0.90	2.48	735.5	0.026
62	1/17/2003	9:27	73.4	29.41	18	68.6	17.42	798.75	49.39	0.92	2.54	751.8	0.027
63	1/21/2003	15:13	71.6	29.50	12	68.1	11.66	810.41	50.41	0.94	2.57	762.7	0.027
64	1/24/2003	14:44	73.4	29.77	8	69.1	7.83	818.23	51.12	0.94	2.60	770.1	0.027
65	1/30/2003	9:23	73.4	29.91	12	68.8	11.80	830.04	52.46	0.96	2.64	781.1	0.028
66	2/11/2003	13:13	74.3	29.38	26	69.2	25.10	855.14	55.17	0.99	2.71	804.7	0.028
67	2/20/2003	11:22	72.5	29.83	23	68.8	22.56	877.70	57.08	1.01	2.79	825.8	0.029
68	2/27/2003	15:05	74.3	29.59	18	68.8	17.52	895.22	58.56	1.03	2.84	842.2	0.030
69	3/7/2003	12:27	74.3	29.80	17	68.9	16.66	911.87	60.16	1.05	2.89	857.8	0.030
70	3/13/2003	15:21	72.5	29.32	17	69.1	16.38	928.26	61.36	1.07	2.95	873.2	0.031
71	3/28/2003	12:46	72.5	29.65	20	70.0	19.46	947.71	64.21	1.09	3.01	891.5	0.031
72	4/9/2003	10:46	73.9	29.59	20	69.9	19.42	967.13	66.40	1.12	3.07	909.8	0.032
73	4/29/2003	12:01	74.3	29.41	24	70.5	23.14	990.27	69.93	1.14	3.14	931.5	0.033
74	5/21/2003	14:05	74.3	29.62	30	70.9	29.11	1019.38	73.62	1.18	3.24	958.8	0.034
75	6/16/2003	13:13	74.3	29.65	33	72.1	31.98	1051.35	77.74	1.21	3.34	988.9	0.035
76	7/28/2003	10:23	74.3	29.38	39	71.6	37.48	1088.84	83.96	1.26	3.46	1024.2	0.036
77	9/8/2003	12:31	73.4	29.59	37.5	73.6	36.16	1125.00	89.77	1.30	3.57	1058.4	0.037
78	11/25/2003	12:02	73.4	29.71	37	69.3	36.12	1161.12	99.65	1.34	3.69	1092.3	0.039
79	12/7/2003	10:17	72.5	29.71	18	72.5	17.46	1178.58	101.08	1.36	3.74	1108.8	0.039
80	Stopped experiment												
80	Measured ash content = 62.67%												

Brush Creek coal bed, con't.

Canister 2 - WV-02-B3-8

DOE/WVGES/USGS		Cumulative volume @ STP: 1927.6		Raw total gas (cc/g) 3.35	
Well ID: 306-061 (Brush Creek + S)	Site no. WV-02-B3-8	Sample Interval (ft): From: 921.1 To: 921.8		DAF total gas (cc/g) 3.82	
Core Date: (mm/dd/yr) 10/7/2002		Time Zero-Coal penetrated (hh:mm) (24 hour clock) 17:46		Raw total gas (SCF/ton) 107.09	
Raw coal mass (air-dry) (grams) 576		Milliliters/gram coal d.a.f.: 3.82		DAF total gas (SCF/ton) 122.14	
Coal mass (d.a.f.): (grams) 505		Lost gas estimate (cc) 0		Cuttings correction 25% (SCF/ton) N/A	
Headspace volume: (cc) 0					
Sample Type <input checked="" type="checkbox"/> Core <input type="checkbox"/> Cuttings		Data Summary <input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final Results			

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace Correction	
		24 hour			Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		Clock	Temp	inches	Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
			° F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	@ STP	Content
In Can	(mm/dd/yr)	HH:MM										(milliliter)	(SCF)
1	10/7/2002	18:01		28.79	0	66.1	0.00	0.00	0.50	0.00	0.00	0.0	0.0
2	10/7/2002	18:04	78.5	28.79	28	72.5	26.33	26.33	0.55	0.05	0.05	24.6	0.001
3	10/7/2002	18:14	78.5	28.79	6	72.5	5.64	31.97	0.68	0.06	0.06	29.9	0.001
4	10/7/2002	18:23	78.5	28.79	4	72.5	3.76	35.73	0.79	0.06	0.07	33.4	0.001
5	10/7/2002	18:34	78.5	28.79	2	72.3	1.88	37.61	0.89	0.07	0.07	35.2	0.001
6	10/7/2002	19:07	78.0	28.79	6	72.2	5.64	43.25	1.16	0.08	0.09	40.4	0.001
7	10/8/2002	9:21	52.2	28.94	81	64.0	77.79	121.05	3.95	0.21	0.24	115.7	0.004
8	10/8/2002	12:50	63.2	28.97	40	73.1	37.80	158.85	4.37	0.28	0.31	152.1	0.005
9	10/8/2002	15:43	72.7	29.03	22	71.3	20.90	179.75	4.69	0.31	0.36	171.8	0.006
10	10/8/2002	16:43	71.8	29.03	10	78.3	9.38	189.13	4.79	0.33	0.37	180.8	0.006
11	10/8/2002	18:45	70.7	28.97	9	70.0	8.55	197.68	5.00	0.34	0.39	188.9	0.007
12	10/9/2002	12:43	69.5	28.88	48	74.1	45.13	242.82	6.55	0.42	0.48	231.9	0.008
13	10/9/2002	17:57	72.5	28.91	25	73.0	23.58	266.40	6.94	0.46	0.53	254.3	0.009
14	10/9/2002	19:07	72.4	28.94	8	72.5	7.56	273.96	7.02	0.48	0.54	261.4	0.009
15	10/10/2002	11:00	69.8	28.91	23	70.1	21.81	295.77	8.08	0.51	0.59	282.0	0.010
16	10/10/2002	13:47	69.4	28.91	17	71.1	16.09	311.87	8.25	0.54	0.62	297.3	0.010
17	10/10/2002	15:48	69.4	28.94	11	71.1	10.42	322.29	8.37	0.56	0.64	307.2	0.011
18	10/10/2002	18:13	70.5	28.94	10	71.1	9.48	331.76	8.51	0.58	0.66	316.2	0.011
19	10/11/2002	10:07	64.1	28.85	21	69.9	19.88	351.65	9.40	0.61	0.70	335.2	0.012
20	10/11/2002	12:25	63.5	28.85	9	69.9	8.52	360.17	9.52	0.63	0.71	343.3	0.012
21	10/11/2002	18:54	71.1	28.82	8	72.7	7.53	367.69	9.86	0.64	0.73	350.5	0.012
22	10/12/2002	13:17	74.3	29.56	24	71.5	23.21	390.91	10.75	0.68	0.77	372.3	0.013
23	10/13/2002	14:20	72.8	29.62	31	71.0	30.07	420.98	11.86	0.73	0.83	400.6	0.014
24	10/14/2002	14:00	73.2	29.83	27	70.4	26.41	447.38	12.82	0.78	0.89	425.5	0.015
25	10/15/2002	15:05	74.0	29.71	30	70.0	29.24	476.63	13.76	0.83	0.94	452.9	0.016
26	10/16/2002	14:45	73.3	29.15	29	70.5	27.71	504.34	14.59	0.88	1.00	479.0	0.017
27	10/17/2002	13:43	73.3	29.44	25	70.3	24.14	528.47	15.36	0.92	1.05	501.7	0.018
28	10/18/2002	14:11	73.8	29.65	26	70.1	25.29	553.76	16.14	0.96	1.10	525.4	0.019
29	10/19/2002	14:47	74.4	29.56	22	70.1	21.33	575.10	16.88	1.00	1.14	545.4	0.019
30	10/20/2002	14:40	73.1	29.47	20	70.2	19.33	594.43	17.58	1.03	1.18	563.6	0.020
31	10/21/2002	15:50	73.2	29.65	17	69.7	16.55	610.98	18.28	1.06	1.21	579.2	0.020
32	10/22/2002	14:07	74.2	29.71	16	69.9	15.60	626.58	18.88	1.09	1.24	593.8	0.021
33	10/23/2002	16:55	73.7	29.77	19	69.9	18.56	645.14	19.57	1.12	1.28	611.2	0.022
34	10/24/2002	14:21	73.4	29.88	16	69.3	15.71	660.85	20.11	1.15	1.31	626.0	0.022
35	10/25/2002	15:17	74.3	29.85	20	70.5	22.57	683.42	20.72	1.19	1.35	644.3	0.023
36	10/26/2002	17:00	73.4	29.44	17	70.2	18.92	702.34	21.34	1.22	1.39	659.8	0.023
37	10/28/2002	11:56	75.2	29.65	36	70.5	40.36	742.69	22.32	1.29	1.47	692.5	0.024
38	10/29/2002	13:03	73.4	29.59	19	70.5	21.26	763.95	22.88	1.33	1.51	709.9	0.025
39	10/30/2002	15:17	73.4	29.41	16	70.5	17.79	781.74	23.44	1.36	1.55	724.4	0.026
40	10/31/2002	13:21	74.3	29.56	14	70.5	15.65	797.39	23.91	1.38	1.58	737.1	0.026
41	11/1/2002	14:48	73.4	29.50	18	70.5	20.08	817.46	24.43	1.42	1.62	753.5	0.027
42	11/4/2002	14:19	73.4	29.53	22	70.5	24.56	842.02	25.86	1.46	1.67	773.5	0.027
43	11/5/2002	13:49	73.4	29.59	16	70.5	17.90	859.92	26.31	1.49	1.70	788.1	0.028
44	11/6/2002	15:05	73.4	29.12	15	70.5	16.51	876.44	26.78	1.52	1.74	801.6	0.028
45	11/7/2002	13:54	73.4	29.62	10	70.5	11.20	887.64	27.21	1.54	1.76	810.7	0.029
46	11/8/2002	12:23	73.1	29.62	10	69.4	9.73	897.37	27.62	1.56	1.78	819.8	0.029
47	11/12/2002	13:17	74.3	29.50	32	70.7	30.93	928.30	29.32	1.61	1.84	848.9	0.030
48	11/13/2002	12:02	73.4	29.56	16	67.9	15.58	943.88	29.70	1.64	1.87	863.5	0.030
49	11/15/2002	7:45	73.4	29.53	18	69.1	17.47	961.35	30.43	1.67	1.90	879.9	0.031
50	11/18/2002	13:17	74.3	29.71	24	69.2	23.43	984.78	31.68	1.71	1.95	901.8	0.032
51	11/20/2002	13:10	73.4	29.71	23	69.9	22.43	1007.21	32.43	1.75	1.99	922.9	0.033
52	11/27/2002	12:24	73.4	29.65	40	68.9	38.99	1046.20	34.91	1.82	2.07	959.4	0.034
53	12/3/2002	13:28	74.3	29.91	39	68.9	38.35	1084.55	36.93	1.88	2.15	995.3	0.035
54	12/5/2002	11:36	74.3	29.53	27	69.1	26.21	1110.76	37.55	1.93	2.20	1019.9	0.036
55	12/9/2002	9:42	74.3	30.12	25	69.1	24.75	1135.51	38.78	1.97	2.25	1043.0	0.037
56	12/11/2002	10:24	74.3	29.50	23	69.4	22.29	1157.80	39.40	2.01	2.29	1063.9	0.038
57	12/16/2002	7:33	73.4	29.23	30	68.9	28.83	1186.63	40.86	2.06	2.35	1090.9	0.039
58	12/18/2002	8:50	74.3	30.00	19	68.8	18.74	1205.37	41.46	2.09	2.39	1108.5	0.039
59	12/20/2002	8:12	73.4	29.00	20	73.1	18.92	1224.29	42.03	2.13	2.42	1126.4	0.040
60	12/23/2002	7:07	73.4	29.50	19	68.9	18.43	1242.72	42.86	2.16	2.46	1143.6	0.040
61	12/27/2002	6:50	73.4	29.80	23	68.9	22.54	1265.26	43.97	2.20	2.51	1164.8	0.041
62	12/30/2002	14:21	74.3	29.68	21	69.1	20.49	1285.74	44.86	2.23	2.55	1184.0	0.042
63	1/2/2003	13:44	73.4	29.47	20	69.6	19.35	1305.09	45.65	2.27	2.58	1202.1	0.042
64	1/6/2003	12:48	74.3	29.41	22	68.8	21.28	1326.37	46.68	2.30	2.63	1222.0	0.043
65	1/9/2003	15:41	72.5	28.94	24	68.8	22.84	1349.21	47.48	2.34	2.67	1243.5	0.044
66	1/13/2003	14:10	73.4	29.41	24	68.5	23.23	1372.44	48.46	2.38	2.72	1265.2	0.045
67	1/17/2003	9:27	73.4	29.41	26	68.6	25.16	1397.59	49.39	2.43	2.77	1288.8	0.046
68	1/21/2003	15:14	71.6	29.50	20	68.1	19.43	1417.02	50.41	2.46	2.81	1307.1	0.046
69	1/24/2003	14:44	73.4	29.77	15	69.1	14.68	1431.70	51.12	2.49	2.84	1320.8	0.047
70	1/30/2003	9:23	73.4	29.91	21	68.8	20.66	1452.35	52.46	2.52	2.88	1340.2	0.047
71	2/11/2003	13:13	74.3	29.38	40	69.2	38.62	1490.97	55.17	2.59	2.95	1376.4	0.049
72	2/20/2003	11:23	72.5	29.83	37	68.8	36.30	1527.27	57.08	2.65	3.02	1410.4	0.050
73	2/27/2003	15:05	74.3	29.59	32	68.8	31.14	1558.41	58.56	2.71	3.09	1439.6	0.051
74	3/7/2003	12:27	74.3	29.80	31	68.9	30.37	1588.78	60.16	2.76	3.15	1468.0	0.052
75	3/13/2003	15:21	72.5	29.32	28	69.1	26.98	1615.76	61.36	2.81	3.20	1493.4	0.053
76	3/28/2003	12:46	72.5	29.65	36	70.0	35.02	1650.79	64.21	2.87	3.27	1526.3	0.054
77	4/9/2003	10:48	73.8	29.59	36	69.9	34.96	1685.74	66.40	2.93	3.34	1559.1	0.055
78	4/29/2003	12:02	74.3	29.41	46	70.5	44.35	1730.09	69.93	3.00	3.43	1600.8	0.057
79	5/21/2003	14:06	74.3	29.62	53	70.9	51.42	1781.51	73.62	3.09	3.53	1649.1	0.058
80	6/16/2003	13:13	74.3										

Upper Kittanning coal bed

Canister 1 – WV-02-B3-9

Project	DOE/MWGES/USGS		Cumulative volume @ STP:	3237.8	Raw total gas (cc/g)	4.26
Well ID:	306-361 (U.Kittanning?)	Can no. WV-02-B3-9	Milliliters/gram raw coal:	4.26	DAF total gas (cc/g)	4.57
Sample Interval (ft):	From: 1121.7	To: 1122.7	Milliliter/gram coal d.a.f.:	4.57	Raw total gas (SCF/ton)	136.33
Core Date: (mm/dd/yr)	10/9/2002		(excluding lost gas)		DAF total gas (SCF/ton)	146.14
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	9:05		Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	760					
Coal mass (d.a.f.): (grams)	709					
Headspace volume: (cc)	0					
Sample Type	Data Summary					
<input checked="" type="checkbox"/> Core	<input type="checkbox"/> Cuttings	<input checked="" type="checkbox"/> Preliminary	<input type="checkbox"/> Final Results			

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	m/gram Raw Coal	m/g d.a.f Coal	Headspace Correction	
	(mm/dd/yr)	HH:MM	° F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(Hrs. ^{1/2})	Mass	Mass	Cumulative Volume @ STP	Cumulative Gas Content
In Can													
1	10/9/2002	9:19	61.7	28.94	0		0.00	0.00	0.48	0.00	0.00	0.0	0.0
2	10/9/2002	9:29	63.7	28.88	30	75.4	28.14	28.14	0.63	0.04	0.04	27.2	0.001
3	10/9/2002	9:40	64.5	28.88	23	75.0	21.59	49.73	0.76	0.07	0.07	48.0	0.002
4	10/9/2002	9:50	64.5	28.88	12	74.9	11.27	61.00	0.87	0.08	0.09	58.9	0.002
5	10/9/2002	10:00	67.0	28.88	10	74.8	9.39	70.39	0.96	0.09	0.10	67.9	0.002
6	10/9/2002	10:10	67.0	28.88	9	74.7	8.45	78.84	1.04	0.10	0.11	76.0	0.003
7	10/9/2002	10:42	67.0	28.97	25	76.8	23.46	102.30	1.27	0.13	0.14	98.6	0.003
8	10/9/2002	11:14	67.0	28.94	0	74.6	0.00	102.30	1.47	0.13	0.14	98.6	0.003
9	10/9/2002	11:36	67.0	28.88	12	74.3	11.28	113.58	1.59	0.15	0.16	109.4	0.004
10	10/9/2002	12:22	67.0	28.88	22	74.1	20.69	134.27	1.81	0.18	0.19	129.2	0.005
11	10/9/2002	14:33	69.1	28.91	43	74.3	40.46	174.73	2.34	0.23	0.25	167.9	0.006
12	10/9/2002	17:58	72.5	28.91	48	73.0	45.27	220.00	2.98	0.29	0.31	210.7	0.007
13	10/9/2002	19:07	72.4	28.94	22	72.5	20.79	240.80	3.17	0.32	0.34	230.4	0.008
14	10/10/2002	8:52	64.0	28.91	84	71.2	79.50	320.30	4.88	0.42	0.45	306.6	0.011
15	10/10/2002	13:18	69.4	28.91	46	71.1	43.54	363.84	5.31	0.48	0.51	347.9	0.012
16	10/10/2002	15:50	69.5	28.94	26	71.1	24.64	388.48	5.55	0.51	0.55	371.3	0.013
17	10/10/2002	18:14	70.5	28.94	20	71.1	18.95	407.43	5.76	0.54	0.57	389.2	0.014
18	10/11/2002	10:04	64.1	28.85	50	69.9	47.34	454.77	7.00	0.60	0.64	434.5	0.015
19	10/11/2002	12:25	63.5	28.85	23	69.9	21.78	476.54	7.16	0.63	0.67	455.3	0.016
20	10/11/2002	18:54	71.1	28.82	20	72.7	18.82	495.36	7.60	0.65	0.70	473.2	0.017
21	10/12/2002	13:18	74.3	29.56	50	71.5	48.36	543.72	8.73	0.72	0.77	518.6	0.018
22	10/13/2002	14:21	72.8	29.62	64	71.0	62.08	605.80	10.06	0.80	0.85	577.1	0.020
23	10/14/2002	14:00	73.2	29.83	55	70.4	53.79	659.59	11.18	0.87	0.93	627.7	0.022
24	10/15/2002	15:06	74.0	29.71	56	70.0	54.59	714.18	12.25	0.94	1.01	679.0	0.024
25	10/16/2002	14:45	73.3	29.15	54	70.5	51.60	765.78	13.18	1.01	1.08	727.5	0.026
26	10/17/2002	13:45	73.3	29.44	45	70.3	43.44	809.22	14.02	1.06	1.14	768.4	0.027
27	10/18/2002	14:12	73.8	29.65	60	70.1	58.36	867.58	14.87	1.14	1.22	823.2	0.029
28	10/19/2002	14:47	74.4	29.56	41	70.1	39.76	907.34	15.67	1.19	1.28	860.4	0.030
29	10/20/2002	14:42	73.1	29.47	38	70.2	36.73	944.07	16.42	1.24	1.33	895.0	0.032
30	10/21/2002	15:51	73.2	29.65	36	72.7	34.84	978.92	17.17	1.29	1.38	927.9	0.033
31	10/22/2002	14:08	74.2	29.71	31	69.9	30.23	1009.14	17.81	1.33	1.42	956.3	0.034
32	10/23/2002	16:56	73.6	29.77	36	69.9	35.17	1044.31	18.54	1.37	1.47	989.3	0.035
33	10/24/2002	14:22	73.4	29.88	20	69.3	19.63	1063.95	19.11	1.40	1.50	1007.7	0.036
34	10/25/2002	15:17	74.3	29.85	32	69.2	31.39	1095.33	19.75	1.44	1.54	1037.1	0.037
35	10/26/2002	17:00	73.4	29.44	32	70.0	30.91	1126.24	20.39	1.48	1.59	1066.1	0.038
36	10/28/2002	11:56	75.2	29.65	42	69.9	40.87	1167.11	21.42	1.54	1.65	1104.4	0.039
37	10/29/2002	13:04	73.4	29.59	32	69.2	31.12	1198.23	22.00	1.58	1.69	1133.6	0.040
38	10/30/2002	15:17	73.4	29.41	30	68.9	29.01	1227.24	22.59	1.61	1.73	1160.8	0.041
39	10/31/2002	13:21	74.3	29.56	28	69.3	27.19	1254.43	23.07	1.65	1.77	1186.3	0.042
40	11/1/2002	14:49	73.4	29.50	29	69.3	28.11	1282.54	23.62	1.69	1.81	1212.6	0.043
41	11/4/2002	14:20	73.4	29.53	44	68.9	42.72	1325.26	25.08	1.74	1.87	1252.7	0.044
42	11/5/2002	13:50	73.4	29.59	29	69.3	28.19	1353.45	25.55	1.78	1.91	1279.1	0.045
43	11/6/2002	15:06	73.4	29.12	29	69.9	27.71	1381.16	26.04	1.82	1.95	1305.2	0.046
44	11/7/2002	13:55	73.4	29.62	22	69.5	21.40	1402.56	26.47	1.85	1.98	1325.3	0.047
45	11/8/2002	12:24	73.1	29.62	21	69.4	20.43	1423.00	26.89	1.87	2.01	1344.4	0.047
46	11/12/2002	13:18	74.3	29.50	58	70.7	56.07	1479.06	28.64	1.95	2.09	1397.1	0.049
47	11/13/2002	12:03	73.4	29.56	29	67.9	28.24	1507.30	29.03	1.98	2.13	1423.5	0.050
48	11/15/2002	7:45	73.4	29.53	34	69.1	33.00	1540.30	29.78	2.03	2.17	1454.5	0.051
49	11/18/2002	13:18	74.3	29.71	44	69.2	42.96	1583.26	31.05	2.08	2.23	1494.7	0.053
50	11/20/2002	13:11	73.4	29.71	40	69.9	39.00	1622.26	31.81	2.13	2.29	1531.3	0.054
51	11/27/2002	12:25	73.4	29.65	70	68.9	68.24	1690.50	34.34	2.22	2.38	1595.3	0.056
52	12/3/2002	13:29	74.3	29.91	73	68.9	71.79	1762.29	36.39	2.32	2.49	1662.5	0.059
53	12/5/2002	11:37	74.3	29.53	42	69.1	40.76	1803.05	37.02	2.37	2.54	1700.7	0.060
54	12/9/2002	9:42	74.3	30.12	46	69.1	45.54	1848.59	38.27	2.43	2.61	1743.3	0.062
55	12/11/2002	10:24	74.3	29.50	39	69.4	37.79	1886.38	38.90	2.48	2.66	1778.7	0.063
56	12/16/2002	7:34	73.4	29.23	52	68.9	49.98	1936.36	40.38	2.55	2.73	1825.6	0.064
57	12/18/2002	8:52	74.3	30.00	35	68.8	34.53	1970.89	40.99	2.59	2.78	1857.9	0.066
58	12/20/2002	8:12	73.4	29.00	34	73.1	32.16	2003.05	41.56	2.64	2.83	1888.3	0.067
59	12/23/2002	7:04	73.4	29.50	33	68.9	32.01	2035.06	42.40	2.68	2.87	1918.3	0.068
60	12/27/2002	6:51	73.4	29.80	39	68.9	38.21	2073.27	43.52	2.73	2.92	1954.1	0.069
61	12/30/2002	14:22	74.3	29.68	36	69.1	35.12	2108.39	44.42	2.77	2.97	1987.0	0.070
62	1/2/2003	13:44	73.4	29.47	35	69.6	33.87	2142.26	45.22	2.82	3.02	2018.8	0.071
63	1/6/2003	12:48	74.3	29.41	38	68.8	36.75	2179.01	46.26	2.87	3.07	2053.2	0.073
64	1/9/2003	15:42	72.5	28.94	38	68.8	36.16	2215.17	47.06	2.91	3.12	2087.2	0.074
65	1/13/2003	14:11	73.4	29.41	39	68.5	37.74	2252.91	48.05	2.96	3.18	2122.5	0.075
66	1/17/2003	9:28	73.4	29.41	35	68.6	33.86	2286.78	48.99	3.01	3.23	2154.3	0.076
67	1/21/2003	15:15	71.6	29.50	36	68.1	34.97	2321.75	50.02	3.05	3.27	2187.1	0.077
68	1/24/2003	14:45	73.4	29.77	29	69.1	28.37	2350.12	50.73	3.09	3.31	2213.7	0.078
69	1/30/2003	9:24	73.4	29.91	37	68.8	36.39	2386.52	52.08	3.14	3.37	2247.8	0.079
70	2/11/2003	13:14	74.3	29.38	67	69.2	64.68	2451.20	54.81	3.23	3.46	2308.4	0.082
71	2/20/2003	11:23	72.5	29.83	57	68.8	55.92	2507.12	56.73	3.30	3.54	2360.9	0.083
72	2/27/2003	15:06	74.3	29.59	54	68.8	52.55	2559.66	58.22	3.37	3.61	2410.1	0.085
73	3/7/2003	12:28	74.3	29.80	51	68.9	49.97	2609.63	59.83	3.43	3.68	2456.9	0.087
74	3/13/2003	15:22	72.5	29.32	47	69.1	45.29	2654.93	61.04	3.49	3.74	2499.4	0.088
75	3/28/2003	12:46	72.5	29.65	64	70.0	62.26	2717.19	63.90	3.58	3.83	2558.0	0.090
76	4/9/2003	10:50	73.6	29.59	62	69.9	52.07	2769.25	66.10	3.64	3.91	2606.9	0.092
77	4/29/2003	12:02	74.3	29.41	85	70.5	81.95	2851.20	69.65	3.75	4.02	2683.8	0.095
78	5/21/2003	14:07	74.3	29.62	90	70.9	87.32	2938.52	73.36	3.87	4.14	2765.9	0.098
79	6/16/2003	13:14	74.3	29.65	96	72.1	93.02	3031.54	77.49	3.99	4.28	2853.5	0.101
80	7/28/2003	10:24	74.3	29.38	112	71.6	107.64	3139.19	83.72	4.13	4.43		

Upper Kittanning coal bed, con't.

Canister 2 - WV-02-B3-9

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	2054.3	Raw total gas (cc/g)	3.85
Well ID:	306-061 (U.Kittanning?)	Can no. WV-02-B3-10	Milliliters/gram raw coal:	3.85	DAF total gas (cc/g)	4.40
Sample Interval (ft)	From: 1122.7	To: 1123.4	Milliliters/gram coal d.a.f.:	4.40	Raw total gas (SCF/ton)	123.34
Core Date: (mm/dd/yr)	9:05		(excluding lost gas)		DAF total gas (SCF/ton)	140.77
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	533		Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	467		(from lost gas graph)			
Coal mass (d.a.f.): (grams)	0					
Headspace volume: (cc)						
Sample Type	Data Summary					
<input checked="" type="checkbox"/> Core	<input checked="" type="checkbox"/> Preliminary		<input checked="" type="checkbox"/> Final Results			
<input type="checkbox"/> Cuttings	<input type="checkbox"/> Final Results					

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	° F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	10/9/2002	9:20	61.7	28.94	0		0.00	0.00	0.50	0.00	0.00	0.0	0.0
1	10/9/2002	9:30	63.7	28.88	28	75.4	26.26	26.26	0.65	0.05	0.06	25.4	0.001
2	10/9/2002	9:42	64.5	28.88	16	75.0	15.02	41.28	0.79	0.08	0.09	39.9	0.001
3	10/9/2002	9:51	64.5	28.88	5	74.9	4.69	45.98	0.88	0.09	0.10	44.4	0.002
4	10/9/2002	10:02	67.0	28.88	11	74.8	10.33	56.31	0.97	0.11	0.12	54.3	0.002
5	10/9/2002	10:12	67.0	28.88	7	74.7	6.57	62.88	1.06	0.12	0.13	60.6	0.002
6	10/9/2002	10:43	67.0	28.97	16	76.8	15.02	77.90	1.28	0.15	0.17	75.1	0.003
7	10/9/2002	11:15	67.0	28.94	14	74.6	13.18	91.08	1.47	0.17	0.20	87.7	0.003
8	10/9/2002	11:37	67.0	28.88	10	74.3	9.40	100.48	1.59	0.19	0.22	96.7	0.003
9	10/9/2002	12:23	67.0	28.88	15	74.1	14.10	114.58	1.82	0.21	0.25	110.3	0.004
10	10/9/2002	14:32	69.1	28.91	29	74.3	27.29	141.87	2.33	0.27	0.30	136.3	0.005
11	10/9/2002	17:59	72.5	28.91	32	73.0	30.18	172.05	2.98	0.32	0.37	164.9	0.006
12	10/9/2002	19:08	72.4	28.94	18	72.5	17.01	189.06	3.17	0.35	0.40	181.0	0.006
13	10/10/2002	8:56	64.0	28.91	60	71.2	56.79	245.85	4.88	0.46	0.53	235.4	0.008
14	10/10/2002	13:52	69.4	28.91	32	71.1	30.29	276.14	5.37	0.52	0.59	264.1	0.009
15	10/10/2002	15:51	69.5	28.94	17	71.1	16.11	292.25	5.55	0.55	0.63	279.4	0.010
16	10/10/2002	18:14	70.5	28.94	10	71.1	9.48	301.73	5.76	0.57	0.65	288.4	0.010
17	10/11/2002	10:05	64.1	28.85	38	69.9	35.98	337.70	7.00	0.63	0.72	322.8	0.011
18	10/11/2002	12:24	63.5	28.85	22	69.9	20.83	358.53	7.16	0.67	0.77	342.7	0.012
19	10/11/2002	18:55	71.1	28.82	11	72.7	10.35	368.88	7.60	0.69	0.79	352.5	0.012
20	10/12/2002	13:18	74.3	29.56	35	71.5	33.85	402.73	8.73	0.76	0.86	364.4	0.014
21	10/13/2002	14:21	72.8	29.62	43	71.0	41.71	444.44	10.06	0.83	0.95	423.7	0.015
22	10/14/2002	14:01	73.2	29.63	35	70.4	34.23	478.67	11.18	0.90	1.02	455.9	0.016
23	10/15/2002	15:07	74.0	29.71	36	70.0	35.09	513.77	12.25	0.96	1.10	488.8	0.017
24	10/16/2002	14:46	73.3	29.15	35	70.5	33.44	547.21	13.18	1.03	1.17	520.3	0.018
25	10/17/2002	13:46	73.3	29.44	30	70.3	28.96	576.17	14.02	1.08	1.23	547.5	0.019
26	10/18/2002	14:12	73.8	29.65	39	70.1	37.93	614.11	14.87	1.15	1.32	583.1	0.021
27	10/19/2002	14:48	74.4	29.56	24	70.1	23.27	637.38	15.68	1.20	1.36	604.9	0.021
28	10/20/2002	14:42	73.1	29.47	25	70.2	24.16	661.54	16.42	1.24	1.42	627.7	0.022
29	10/21/2002	15:51	73.2	29.65	22	72.7	21.29	682.84	17.17	1.28	1.46	647.8	0.023
30	10/22/2002	14:08	74.2	29.71	20	69.9	19.50	702.34	17.81	1.32	1.50	666.1	0.024
31	10/23/2002	16:58	73.6	29.77	23	69.9	22.47	724.81	18.54	1.36	1.55	687.2	0.024
32	10/24/2002	14:22	73.4	29.88	10	69.3	9.82	734.63	19.11	1.38	1.57	696.4	0.025
33	10/25/2002	15:18	74.3	29.85	20	69.2	19.62	754.24	19.75	1.42	1.62	714.8	0.025
34	10/26/2002	17:01	73.4	29.44	21	70.0	20.29	774.53	20.39	1.45	1.66	733.8	0.026
35	10/28/2002	11:57	75.2	29.65	38	69.9	36.98	811.50	21.42	1.52	1.74	768.4	0.027
36	10/29/2002	13:04	73.4	29.59	18	69.2	17.50	829.01	22.00	1.56	1.78	784.8	0.028
37	10/30/2002	15:18	73.4	29.41	18	68.9	17.41	846.41	22.59	1.59	1.81	801.2	0.028
38	10/31/2002	13:22	74.3	29.56	18	69.3	17.48	863.89	23.07	1.62	1.85	817.5	0.029
39	11/1/2002	14:49	73.4	29.50	7	69.3	6.78	870.68	23.62	1.63	1.86	823.9	0.029
40	11/4/2002	14:20	73.4	29.53	28	68.9	27.19	897.86	25.08	1.68	1.92	849.4	0.030
41	11/5/2002	13:50	73.4	29.59	8	69.3	7.78	905.64	25.55	1.70	1.94	856.7	0.030
42	11/6/2002	15:06	73.4	29.12	8	69.9	7.65	913.29	26.04	1.71	1.96	863.9	0.031
43	11/7/2002	13:55	73.4	29.62	12	69.5	11.67	924.96	26.47	1.74	1.98	874.8	0.031
44	11/8/2002	12:25	73.1	29.62	11	69.4	10.70	935.66	26.89	1.76	2.00	884.9	0.031
45	11/12/2002	13:19	74.3	29.50	36	70.7	34.80	970.46	28.64	1.82	2.08	917.6	0.032
46	11/13/2002	12:03	73.4	29.56	17	67.9	16.55	987.01	29.03	1.85	2.11	933.1	0.033
47	11/15/2002	7:46	73.4	29.53	22	69.1	21.35	1008.37	29.78	1.89	2.16	953.1	0.034
48	11/18/2002	13:19	74.3	29.71	28	69.2	27.34	1035.70	31.05	1.94	2.22	978.7	0.035
49	11/20/2002	13:11	73.4	29.71	25	69.9	24.38	1060.08	31.81	1.99	2.27	1001.6	0.035
50	11/27/2002	12:25	73.4	29.65	45	68.9	43.87	1103.95	34.34	2.07	2.36	1042.7	0.037
51	12/3/2002	13:30	74.3	29.91	47	68.9	46.22	1150.17	36.39	2.16	2.46	1086.0	0.038
52	12/5/2002	11:37	74.3	29.53	30	69.1	29.12	1179.28	37.02	2.21	2.53	1113.2	0.039
53	12/9/2002	9:43	74.3	30.12	26	69.1	25.74	1205.02	38.27	2.26	2.58	1137.3	0.040
54	12/11/2002	10:25	74.3	29.50	25	69.4	24.23	1229.25	38.90	2.31	2.63	1160.0	0.041
55	12/16/2002	7:35	73.4	29.23	33	68.9	31.72	1260.96	40.38	2.37	2.70	1189.8	0.042
56	12/18/2002	8:53	74.3	30.00	20	68.8	19.73	1280.70	40.99	2.40	2.74	1208.2	0.043
57	12/20/2002	8:13	73.4	29.00	22	73.1	20.81	1301.51	41.56	2.44	2.79	1227.9	0.043
58	12/23/2002	7:08	73.4	29.50	19	68.9	18.43	1319.94	42.40	2.48	2.83	1245.2	0.044
59	12/27/2002	6:52	73.4	29.80	24	68.9	23.52	1343.45	43.52	2.52	2.88	1267.2	0.045
60	12/30/2002	14:24	74.3	29.68	21	69.1	20.49	1363.94	44.42	2.56	2.92	1286.4	0.045
61	1/2/2003	13:45	73.4	29.47	22	69.6	21.29	1385.23	45.22	2.60	2.97	1306.4	0.046
62	1/6/2003	12:49	74.3	29.41	25	68.8	24.18	1409.40	46.26	2.64	3.02	1329.0	0.047
63	1/9/2003	15:42	72.5	28.94	26	68.8	24.74	1434.15	47.06	2.69	3.07	1352.3	0.048
64	1/13/2003	14:12	73.4	29.41	25	68.5	24.19	1458.34	48.05	2.74	3.12	1374.9	0.049
65	1/17/2003	9:29	73.4	29.41	21	68.6	20.32	1478.66	48.99	2.77	3.17	1394.0	0.049
66	1/21/2003	15:15	71.6	29.50	22	68.1	21.37	1500.03	50.02	2.81	3.21	1414.0	0.050
67	1/24/2003	14:46	73.4	29.77	17	69.1	16.63	1516.66	50.73	2.85	3.25	1429.6	0.050
68	1/30/2003	9:24	73.4	29.91	23	68.8	22.62	1539.29	52.08	2.89	3.30	1450.8	0.051
69	2/11/2003	13:14	74.3	29.38	48	69.2	46.34	1585.63	54.81	2.97	3.40	1494.2	0.053
70	2/20/2003	11:24	72.5	29.83	35	68.8	34.33	1619.96	56.73	3.04	3.47	1526.5	0.054
71	2/29/2003	15:06	74.3	29.59	35	68.8	34.06	1654.02	#VALUE!	3.10	3.54	1558.4	0.055
72	3/7/2003	12:28	74.3	29.80	33	68.9	32.33	1686.35	59.83	3.16	3.61	1588.6	0.056
73	3/13/2003	15:22	72.5	29.32	30	69.1	28.91	1715.26	61.04	3.22	3.67	1615.8	0.057
74	3/28/2003	12:47	72.5	29.65	41	70.0	39.89	1755.15	63.90	3.29	3.76	1653.3	0.058
75	4/9/2003	10:53	73.8	29.59	40	69.9	38.84	1793.99	66.10	3.37	3.84	1689.8	0.060
76	4/29/2003	12:03	74.3	29.41	55	70.5	53.02	1847.02	69.65	3.47	3.96	1739.6	0.061
77	5/21/2003	14:07	74.3	29.62	60	70.9	58.21	1905.23	73.36	3.57	4.08	1794.3	0.063
78	6/16/2003	13:15	74.3	29.65	64	72.1	62.02	1967.25	77.49	3.69	4.21	1852.6	0.065
79	7/28/2003	10:25	74.3	29.38	80	71.6	76.89	2044.13	83.72	3.84	4.38	1925.0	0.068
80	9/8/2003	12:36	73.4	29.59									

Middle Kittanning coal bed

Canister 1 – WV-02-B3-11

Project	DOE/WVGES/USGS	Cumulative volume @ STP:	2593.4	Raw total gas (cc/g)	2.98
Well ID:	306-061 (M.Kittanning-0)	Milliliters/gram raw coal:	2.96	DAF total gas (cc/g)	3.78
Sample Interval (ft):	From: 1184.1 To: 1185.1	Milliliter/gram coal d.a.f.:	3.75	Raw total gas (SCF/ton)	95.36
Core Date: (mm/dd/yr)	10/9/2002	(excluding lost gas)		DAF total gas (SCF/ton)	121.03
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	13:31	Lost gas estimate (cc)	20	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	877				
Coal mass (d.a.f.): (grams)	691				
Headspace volume: (cc)	0				
Sample Type		Data Summary			
<input checked="" type="checkbox"/> Core	<input type="checkbox"/> Cuttings	<input checked="" type="checkbox"/> Preliminary	<input type="checkbox"/> Final Results		

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{00.55})	Mass	Mass	(milliliter)	(SCF)
In Can					0		0.00	0.00	0.55	0.00	0.00	0.0	0.0
1	10/9/2002	14:02	69.4	28.88	28	73.5	26.36	26.36	0.72	0.03	0.04	25.1	0.001
2	10/9/2002	14:12	69.4	28.88	42	73.5	39.54	65.90	0.83	0.08	0.10	62.8	0.002
3	10/9/2002	14:24	69.4	28.88	14	73.5	13.18	79.07	0.94	0.09	0.11	75.3	0.003
4	10/9/2002	14:36	69.1	28.91	12	73.0	11.32	90.39	1.04	0.10	0.13	86.1	0.003
5	10/9/2002	15:06	69.8	28.91	21	73.2	19.80	110.19	1.26	0.13	0.16	105.0	0.004
6	10/9/2002	16:48	73.1	28.91	42	73.1	39.61	149.80	1.81	0.17	0.22	142.4	0.005
7	10/9/2002	18:01	72.5	28.91	23	73.0	21.69	171.50	2.12	0.20	0.25	163.0	0.006
8	10/9/2002	19:09	72.4	28.94	19	72.5	17.96	189.45	2.37	0.22	0.27	179.9	0.006
9	10/10/2002	9:04	64.0	28.91	86	71.1	81.41	270.86	4.42	0.31	0.39	258.0	0.009
10	10/10/2002	13:53	69.4	28.91	42	71.1	40.99	311.86	4.94	0.36	0.45	296.8	0.010
11	10/10/2002	15:52	69.5	28.94	20	71.1	18.95	330.81	5.13	0.38	0.48	314.8	0.011
12	10/10/2002	18:15	70.5	28.94	11	71.1	10.42	341.23	5.36	0.39	0.49	324.7	0.011
13	10/11/2002	9:52	64.0	28.85	46	69.9	43.55	384.78	6.66	0.44	0.56	366.3	0.013
14	10/11/2002	12:18	63.5	28.85	36	69.8	34.09	418.87	6.84	0.48	0.61	399.0	0.014
15	10/11/2002	18:56	71.2	28.82	14	72.7	13.17	432.04	7.31	0.49	0.63	411.4	0.015
16	10/12/2002	13:19	74.3	29.56	40	71.5	38.69	470.73	8.47	0.54	0.68	447.8	0.016
17	10/13/2002	14:22	72.8	29.62	48	71.0	46.56	517.29	9.84	0.59	0.75	491.7	0.017
18	10/14/2002	14:01	73.2	29.83	38	70.4	37.16	554.46	10.98	0.63	0.80	526.7	0.019
19	10/15/2002	15:07	74.0	29.71	42	70.0	40.94	595.40	12.07	0.68	0.86	565.1	0.020
20	10/16/2002	14:47	73.3	29.15	38	70.5	36.31	631.71	13.01	0.72	0.91	599.2	0.021
21	10/17/2002	13:47	73.3	29.44	32	70.3	30.89	662.60	13.87	0.76	0.96	628.3	0.022
22	10/18/2002	14:13	73.8	29.65	30	70.1	29.18	691.78	14.72	0.79	1.00	655.7	0.023
23	10/19/2002	14:49	74.4	29.56	28	70.1	27.15	718.93	15.53	0.82	1.04	681.2	0.024
24	10/20/2002	14:46	73.1	29.47	28	70.2	27.06	746.00	16.29	0.85	1.08	706.6	0.025
25	10/21/2002	15:52	73.2	29.65	32	72.7	30.97	776.97	17.04	0.89	1.12	735.9	0.026
26	10/22/2002	14:09	74.2	29.71	31	69.9	30.23	807.20	17.68	0.92	1.17	764.2	0.027
27	10/23/2002	16:59	73.6	29.77	26	69.9	25.40	832.60	18.42	0.95	1.20	788.1	0.028
28	10/24/2002	14:23	73.4	29.88	20	69.3	19.63	852.23	19.00	0.97	1.23	806.5	0.028
29	10/25/2002	15:18	74.3	29.85	24	69.2	23.54	875.77	19.64	1.00	1.27	828.5	0.029
30	10/26/2002	17:01	73.4	29.44	23	70.0	22.22	897.99	20.29	1.02	1.30	849.4	0.030
31	10/28/2002	11:58	75.2	29.65	30	69.9	29.19	927.18	21.32	1.06	1.34	876.7	0.031
32	10/29/2002	13:05	73.4	29.59	20	69.2	19.45	946.63	21.90	1.08	1.37	895.0	0.032
33	10/30/2002	15:19	73.4	29.41	20	68.9	19.34	965.97	22.49	1.10	1.40	913.1	0.032
34	10/31/2002	13:23	74.3	29.56	20	69.3	19.42	985.39	22.98	1.12	1.43	931.3	0.033
35	11/1/2002	14:50	73.4	29.50	9	69.3	8.72	994.11	23.52	1.13	1.44	939.5	0.033
36	11/4/2002	14:21	73.4	29.53	34	68.9	33.01	1027.12	25.00	1.17	1.49	970.4	0.034
37	11/5/2002	13:51	73.4	29.59	18	69.3	17.50	1044.62	25.46	1.19	1.51	986.9	0.035
38	11/6/2002	15:06	73.4	29.12	11	69.9	10.51	1055.14	25.95	1.20	1.53	996.7	0.035
39	11/7/2002	13:56	73.4	29.62	13	69.5	12.65	1067.78	26.39	1.22	1.55	1008.6	0.036
40	11/8/2002	12:27	73.1	29.62	15	69.4	14.59	1082.38	26.81	1.23	1.57	1022.3	0.036
41	11/12/2002	13:19	74.3	29.50	47	70.7	45.43	1127.81	28.56	1.29	1.63	1065.0	0.038
42	11/13/2002	12:03	73.4	29.56	19	67.9	18.50	1146.31	28.96	1.31	1.66	1082.3	0.038
43	11/15/2002	7:47	73.4	29.53	25	69.1	24.26	1170.57	29.70	1.33	1.69	1105.1	0.039
44	11/18/2002	13:19	74.3	29.71	34	69.2	33.19	1203.77	30.98	1.37	1.74	1136.1	0.040
45	11/20/2002	13:12	73.4	29.71	30	69.9	29.25	1233.02	31.74	1.41	1.78	1163.6	0.041
46	11/27/2002	12:26	73.4	29.65	58	68.9	56.54	1289.56	34.28	1.47	1.87	1216.6	0.043
47	12/3/2002	13:31	74.3	29.91	47	68.9	46.22	1335.78	36.33	1.52	1.93	1259.9	0.044
48	12/5/2002	11:38	74.3	29.53	36	69.1	34.94	1370.72	36.96	1.56	1.98	1292.6	0.046
49	12/9/2002	9:44	74.3	30.12	28	69.1	27.72	1398.44	38.21	1.59	2.02	1318.6	0.047
50	12/11/2002	10:26	74.3	29.50	30	69.4	29.07	1427.51	38.84	1.63	2.07	1345.8	0.048
51	12/16/2002	7:35	73.4	29.23	41	68.9	39.40	1466.91	40.32	1.67	2.12	1382.7	0.049
52	12/18/2002	8:54	74.3	30.00	25	68.8	24.66	1491.58	40.93	1.70	2.16	1405.8	0.050
53	12/20/2002	8:14	73.4	29.00	26	70.1	24.73	1516.31	41.51	1.73	2.19	1429.1	0.050
54	12/23/2002	7:09	73.4	29.50	25	68.9	24.25	1540.56	42.35	1.76	2.23	1451.8	0.051
55	12/27/2002	6:53	73.4	29.80	24	68.9	23.52	1564.08	43.47	1.78	2.26	1473.8	0.052
56	12/30/2002	14:24	74.3	29.68	26	69.1	25.36	1589.44	44.37	1.81	2.30	1497.6	0.053
57	1/2/2003	13:45	73.4	29.47	28	69.6	27.09	1616.53	45.17	1.84	2.34	1523.0	0.054
58	1/6/2003	12:49	74.3	29.41	32	68.8	30.95	1647.48	46.21	1.88	2.38	1552.0	0.055
59	1/9/2003	15:43	72.5	28.94	34	68.8	32.36	1679.84	47.01	1.92	2.43	1582.4	0.056
60	1/13/2003	14:12	73.4	29.41	32	68.5	30.97	1710.81	48.01	1.95	2.48	1611.4	0.057
61	1/17/2003	9:29	73.4	29.41	28	68.6	27.09	1737.90	48.95	1.98	2.52	1636.8	0.058
62	1/21/2003	15:15	71.6	29.50	28	68.1	27.20	1765.10	49.98	2.01	2.55	1662.3	0.059
63	1/23/2003	14:46	73.4	29.77	21	69.1	20.55	1785.65	50.45	2.04	2.58	1681.6	0.059
64	1/30/2003	9:25	73.4	29.91	30	68.8	29.51	1815.15	52.04	2.07	2.63	1709.3	0.060
65	2/1/2003	14:15	74.3	29.38	62	69.2	59.86	1875.01	54.78	2.14	2.71	1765.3	0.062
66	2/20/2003	12:25	72.5	29.83	48	68.8	47.09	1922.10	56.70	2.19	2.78	1809.5	0.064
67	2/27/2003	16:07	74.3	29.59	45	68.8	43.79	1965.89	58.19	2.24	2.84	1850.5	0.065
68	3/7/2003	13:28	74.3	29.80	42	68.9	41.15	2007.04	59.80	2.29	2.90	1889.0	0.067
69	3/13/2003	16:22	72.5	29.32	38	69.1	36.62	2043.66	61.02	2.33	2.96	1923.4	0.068
70	3/28/2003	13:47	72.5	29.65	55	70.0	53.51	2097.17	63.88	2.39	3.03	1973.8	0.070
71	4/9/2003	10:54	73.7	29.59	54	69.9	52.44	2149.60	66.07	2.45	3.11	2023.0	0.071
72	4/29/2003	12:04	74.3	29.41	83	70.5	80.02	2229.62	69.62	2.54	3.23	2098.1	0.074
73	5/21/2003	14:08	74.3	29.62	80	70.9	77.62	2307.24	73.33	2.63	3.34	2171.1	0.077
74	6/16/2003	13:15	74.3	29.65	88	72.1	85.27	2392.51	77.46	2.73	3.46	2251.4	0.080
75	7/28/2003	10:26	74.3	29.38	106	71.6	101.88	2494.38	83.70	2.84	3.61	2347.2	0.083
76	9/8/2003	12:37	73.4	29.36	105	73.6	100.47	2594.85	89.53	2.96	3.76	2442.2	0.086
77	11/25/2003	12:14	73.4	29.71	110	69.3	107.37	2702.22	99.43	3.08	3.91	2543.0	0.090
78	12/7/2003	10:18	72.5	29.71	55	72.5	53.36	2755.59	100.86	3.14	3.99	2593.4	0.092
Stopped analyses													
Measured ash content = 21.18 %													

Canister 2 – WV-02-CB3-12

Project	DOE/VV/GSG/USGS		Cumulative volume @ STP:	<input type="text" value="820.3"/>	Raw total gas (cc/g)	<input type="text" value="3.23"/>
Well ID:	306-061 (M.Kittanning-U.S. Geol. no. WV-02-CB3-12)					
Sample Interval (ft):	From:	<input type="text" value="1185.1"/>	To:	<input type="text" value="1185.4"/>		
Core Date: (mm/dd/yr)	<input type="text" value="10/9/2002"/>		Milliliters/gram raw coal:	<input type="text" value="3.16"/>	DAF total gas (cc/g)	<input type="text" value="4.57"/>
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	<input type="text" value="13:31"/>		Milliliter/gram coal d.a.f.:	<input type="text" value="4.46"/>	Raw total gas (SCF/ton)	<input type="text" value="103.42"/>
Raw coal mass (air-dry): (grams)	<input type="text" value="260"/>		(excluding lost gas)			
Coal mass (d.a.f.): (grams)	<input type="text" value="184"/>		Lost gas estimate (cc)	<input type="text" value="20"/>	DAF total gas (SCF/ton)	<input type="text" value="146.14"/>
Headspace volume: (cc)	<input type="text" value="0"/>		(from lost gas graph)			
<div> <div>Sample Type</div> <div> <input checked="" type="checkbox"/> Core <input type="checkbox"/> Cuttings </div> </div> <div> <div>Data Summary</div> <div> <input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final Results </div> </div>			Cuttings correction 25% (SCF/ton)			<input type="text" value="N/A"/>

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

In Can	Date (mm/dd/yy)	Time 24 hour Clock HH:MM	Ambient Temp ° F	Pressure inches Hg	Delta Gas Volume (milliter)	Internal Canister ° F	Delta Volume @ STP (milliter)	Cumulative Volume @ STP (milliter)	Sq. Root Elapsed Time (Hrs. ^{1/2})	ml/gram Raw Coal Mass	ml/g d.a.f. Coal Mass	Headspace Correction	
												Cumulative Volume @ STP (milliter)	Cumulative Gas Content (SCF)
1	10/9/2002	13:50	69.4	28.94	0	73.5	0.00	0.00	0.56	0.00	0.00	0.0	0.0
2	10/9/2002	14:07	69.4	28.88	-4	73.5	-3.77	-3.77	0.77	-0.01	-0.02	-3.6	0.000
3	10/9/2002	14:11	69.4	28.88	2	73.5	1.88	-1.88	0.82	-0.01	-0.01	-1.8	0.000
4	10/9/2002	14:25	69.4	28.88	7	73.5	6.59	4.71	0.95	0.02	0.03	4.5	0.000
5	10/9/2002	14:37	69.1	28.91	2	73.0	1.89	6.59	1.05	0.03	0.04	6.3	0.000
6	10/9/2002	15:06	69.8	28.91	4	73.2	3.77	10.36	1.26	0.04	0.06	9.9	0.000
7	10/9/2002	16:50	73.1	28.91	13	73.1	12.26	22.62	1.82	0.09	0.12	21.5	0.001
8	10/9/2002	18:01	72.5	28.91	6	73.0	5.66	28.28	2.12	0.11	0.15	26.8	0.001
9	10/9/2002	19:10	72.4	28.94	4	72.5	3.78	32.06	2.38	0.12	0.17	30.4	0.001
10	10/10/2002	9:05	64.0	28.91	44	71.1	41.65	73.71	4.42	0.28	0.40	70.3	0.002
11	10/10/2002	13:58	69.7	28.91	16	71.1	15.15	88.86	4.94	0.34	0.48	84.7	0.003
12	10/10/2002	15:53	69.9	28.94	4	71.1	3.79	92.65	5.13	0.36	0.50	88.3	0.003
13	10/10/2002	18:17	70.5	28.94	2	71.1	1.90	94.55	5.36	0.36	0.51	90.1	0.003
14	10/11/2002	9:58	64.1	28.85	10	69.9	9.47	104.01	6.67	0.40	0.57	99.1	0.003
15	10/11/2002	12:21	63.5	28.85	3	69.8	3.79	107.80	6.84	0.41	0.59	102.7	0.004
16	10/11/2002	18:57	71.2	28.82	3	72.7	11.62	119.42	7.31	0.53	0.60	105.4	0.004
17	10/12/2002	13:20	74.3	29.56	10	71.5	9.67	120.30	8.47	0.46	0.65	114.5	0.004
18	10/13/2002	14:22	72.8	29.62	14	71.0	13.58	133.88	9.84	0.51	0.73	127.3	0.004
19	10/14/2002	14:02	73.2	29.83	10	70.4	9.78	143.66	10.98	0.55	0.78	136.5	0.005
20	10/15/2002	15:08	74.0	29.71	11	70.0	10.72	154.38	12.07	0.59	0.84	146.6	0.005
21	10/16/2002	14:47	73.3	29.15	10	70.5	9.56	163.93	13.01	0.63	0.89	155.6	0.005
22	10/17/2002	13:48	73.3	29.44	26	70.3	25.10	189.03	13.87	0.73	1.03	179.2	0.006
23	10/18/2002	14:21	73.8	29.65	15	70.1	14.59	203.62	14.73	0.78	1.11	192.9	0.007
24	10/19/2002	14:49	74.4	29.56	21	70.1	20.36	223.99	15.53	0.86	1.22	212.0	0.007
25	10/20/2002	14:47	73.1	29.46	8	71.7	7.71	231.70	16.29	0.89	1.26	219.2	0.008
26	10/21/2002	15:52	73.2	29.65	21	72.7	20.33	252.02	17.04	0.97	1.37	238.4	0.008
27	10/22/2002	14:10	74.2	29.71	7	69.9	6.83	258.85	17.68	1.00	1.41	244.8	0.009
28	10/23/2002	17:01	73.6	29.77	9	69.9	8.79	267.64	18.43	1.03	1.45	253.1	0.009
29	10/24/2002	14:23	73.4	29.88	9	69.3	8.84	276.48	19.00	1.06	1.50	261.4	0.009
30	10/25/2002	15:19	74.3	29.85	7	69.2	6.87	283.34	19.64	1.09	1.54	267.8	0.009
31	10/26/2002	17:02	73.4	29.44	6	70.0	5.80	289.14	20.29	1.11	1.57	273.2	0.010
32	10/28/2002	11:59	75.2	29.65	9	69.9	8.76	297.90	21.32	1.15	1.62	281.4	0.010
33	10/29/2002	13:05	73.4	29.59	8	69.2	7.78	305.67	21.90	1.18	1.66	288.7	0.010
34	10/30/2002	15:20	73.4	29.41	7	68.9	6.77	312.44	22.49	1.20	1.70	295.1	0.010
35	10/31/2002	13:23	74.3	29.56	7	69.3	6.80	319.24	22.98	1.23	1.74	301.5	0.011
36	11/1/2002	14:50	73.4	29.50	8	69.3	7.75	326.99	23.52	1.26	1.78	308.7	0.011
37	11/4/2002	14:21	73.4	29.53	8	68.9	7.77	334.76	25.00	1.29	1.82	316.0	0.011
38	11/5/2002	13:51	73.4	29.59	4	69.3	3.89	338.65	25.46	1.30	1.84	319.7	0.011
39	11/6/2002	15:07	73.4	29.12	6	69.9	5.73	344.38	25.95	1.32	1.87	325.1	0.011
40	11/7/2002	13:56	73.4	29.62	4	69.5	3.89	348.28	26.39	1.34	1.89	328.7	0.012
41	11/8/2002	12:27	73.1	29.62	4	71.5	3.88	352.15	26.81	1.35	1.91	332.4	0.012
42	11/12/2002	13:20	74.3	29.50	15	70.7	14.50	366.65	28.56	1.41	1.99	346.0	0.012
43	11/13/2002	12:04	73.4	29.56	5	67.9	4.87	371.52	28.96	1.43	2.02	350.5	0.012
44	11/15/2002	7:47	73.4	29.53	9	69.1	8.74	380.26	29.70	1.46	2.07	358.7	0.013
45	11/18/2002	13:20	74.3	29.71	10	69.2	9.76	390.02	30.98	1.50	2.12	367.9	0.013
46	11/20/2002	13:12	73.4	29.71	9	69.9	8.78	398.79	31.74	1.53	2.17	376.1	0.013
47	11/27/2002	12:26	73.4	29.65	20	68.9	19.50	418.29	34.28	1.61	2.27	394.4	0.014
48	12/3/2002	13:31	74.3	29.91	12	68.9	11.80	430.09	36.33	1.65	2.34	405.4	0.014
49	12/5/2002	11:38	74.3	29.53	11	69.1	10.68	440.77	36.96	1.70	2.40	415.4	0.015
50	12/9/2002	9:44	74.3	30.12	8	69.1	7.92	448.69	38.21	1.73	2.44	422.8	0.015
51	12/11/2002	10:26	74.3	29.50	10	69.4	9.69	458.38	38.84	1.76	2.49	431.9	0.015
52	12/16/2002	7:36	73.4	29.23	14	68.9	13.45	471.83	40.32	1.81	2.56	444.5	0.016
53	12/18/2002	8:57	74.3	30.00	4	68.8	3.95	475.78	40.93	1.83	2.59	448.2	0.016
54	12/20/2002	8:14	73.4	29.00	10	73.1	9.46	485.24	41.51	1.87	2.64	457.2	0.016
55	12/23/2002	7:10	73.4	29.50	6	68.9	5.82	491.06	42.35	1.89	2.67	462.6	0.016
56	12/27/2002	6:53	73.4	29.80	9	68.9	8.82	499.88	43.47	1.92	2.72	470.9	0.017
57	12/30/2002	14:25	74.3	29.68	9	69.1	8.78	508.66	44.37	1.96	2.76	479.1	0.017
58	1/2/2003	13:46	73.4	29.47	8	69.6	7.74	516.40	45.17	1.99	2.81	486.4	0.017
59	1/6/2003	12:50	74.3	29.41	11	68.8	10.64	527.04	46.21	2.03	2.86	496.3	0.018
60	1/9/2003	15:43	72.5	28.94	15	68.8	14.28	541.31	47.01	2.08	2.94	509.7	0.018
61	1/13/2003	14:13	73.4	29.41	11	68.5	10.64	551.96	48.01	2.12	3.00	519.7	0.018
62	1/17/2003	9:29	73.4	29.41	10	68.6	9.68	561.63	48.95	2.16	3.05	528.8	0.019
63	1/21/2003	15:16	71.6	29.50	9	68.1	8.74	570.38	49.98	2.19	3.10	537.0	0.019
64	1/24/2003	14:47	73.4	29.77	7	69.1	6.85	577.22	50.69	2.22	3.14	543.4	0.019
65	1/30/2003	9:26	73.4	29.91	9	68.8	8.85	586.08	52.04	2.25	3.19	551.7	0.019
66	2/11/2003	13:16	74.3	29.38	15	69.2	14.48	600.56	54.77	2.31	3.26	565.3	0.020
67	2/20/2003	11:25	72.5	29.83	14	68.8	13.73	614.29	56.69	2.36	3.34	578.2	0.020
68	2/27/2003	15:06	74.3	29.59	15	68.8	14.60	628.89	58.19	2.42	3.42	591.8	0.021
69	3/7/2003	12:29	74.3	29.80	10	68.9	9.80	638.69	59.79	2.46	3.47	601.0	0.021
70	3/13/2003	15:23	72.5	29.32	13	69.1	12.53	651.21	61.01	2.50	3.54	612.8	0.022
71	3/28/2003	12:48	72.5	29.65	18	72.7	17.42	668.64	63.87	2.57	3.63	629.3	0.022
72	4/9/2003	10:55	73.5	29.59	18	69.9	17.48	686.12	66.07	2.64	3.73	645.7	0.023
73	4/29/2003	12:06	74.3	29.41	26	70.5	25.07	711.18	69.62	2.74	3.87	669.2	0.024
74	5/21/2003	14:09	74.3	29.62	24	70.9	23.29	734.47	73.33	2.82	3.99	691.1	0.024
75	6/16/2003	13:21	74.3	29.65	25	72.1	24.23	758.69	77.46	2.92	4.12	713.9	0.025
76	7/28/2003	10:27	74.3	29.38	33	71.6	31.72	790.41	83.70	3.04	4.30	743.7	0.026
77	9/8/2003	12:38	73.4	29.36	35	73.6	33.49	823.90	89.53	3.17	4.48	775.4	0.027
78	11/25/2003	12:17	73.4	29.71	37	72.5	35.90	859.79	99.43	3.31	4.67	809.3	0.029
79	12/7/2003	10:10	72.3	29.71	12	72.5	11.64	871.44	100.86	3.35	4.74	820.3	0.029
Stopped analyses													
Measured gas content = 29.10 %													

Middle Kittanning coal bed, con't.

Canister 3 - WV-02-B3-12

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	2796.7	Raw total gas (cc/g)	3.28
Well ID:	306-061 (M.Kittanning-L)	Split no. WV-02-B3-12	Milliliters/gram raw coal:	3.25	DAF total gas (cc/g)	4.35
Sample Interval (ft):	From: 1188	To: 1189	Milliliter/gram coal d.a.f.:	4.32	Raw total gas (SCF/ton)	104.81
Core Date: (mm/dd/yr)	10/9/2002		(excluding lost gas)		DAF total gas (SCF/ton)	139.31
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	13:31		Lost gas estimate (cc)	20	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	860					
Coal mass (d.a.f.): (grams)	647					
Headspace volume: (cc)	0					
Sample Type	Core		Data Summary	Preliminary		
	Cuttings			Final Results		

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)													
	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace	Correction
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		Clock	°F		Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
		HH:MM		Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	Content
In Can													(SCF)
	10/9/2002	13:51		28.94			0.00	0.00	0.58	0.00	0.00	0.0	0.0
1	10/9/2002	14:08	69.4	28.88	22	72.5	20.75	20.75	0.79	0.02	0.03	19.7	0.001
2	10/9/2002	14:13	69.4	28.88	12	72.5	11.32	32.07	0.84	0.04	0.05	30.5	0.001
3	10/9/2002	14:25	68.4	28.88	19	72.5	17.92	49.99	0.95	0.06	0.08	47.6	0.002
4	10/9/2002	14:39	68.4	28.88	10	72.5	9.43	59.42	1.06	0.07	0.09	56.6	0.002
5	10/9/2002	15:07	69.1	28.91	18	73.0	16.98	76.40	1.26	0.09	0.12	72.7	0.003
6	10/9/2002	16:53	69.8	28.91	40	73.2	37.71	114.11	1.83	0.13	0.18	108.6	0.004
7	10/9/2002	18:03	73.1	28.91	21	73.1	19.80	133.91	2.13	0.16	0.21	127.3	0.004
8	10/9/2002	19:11	72.5	28.91	18	73.0	16.98	150.89	2.38	0.18	0.23	143.4	0.005
9	10/10/2002	9:18	64.0	28.91	92	71.1	87.09	237.98	4.45	0.28	0.37	226.9	0.008
10	10/10/2002	13:57	69.7	28.91	41	71.1	38.81	276.79	4.94	0.32	0.43	263.7	0.009
11	10/10/2002	15:54	69.9	28.94	20	71.1	18.95	295.74	5.14	0.34	0.46	281.6	0.010
12	10/10/2002	18:16	70.5	28.94	12	71.1	11.37	307.11	5.36	0.36	0.47	292.4	0.010
13	10/11/2002	9:37	64.0	28.85	58	69.1	55.00	362.11	6.64	0.42	0.56	344.9	0.012
14	10/11/2002	12:23	63.5	28.85	12	69.8	11.36	373.47	6.85	0.43	0.58	355.8	0.013
15	10/11/2002	18:57	71.2	28.82	42	72.7	39.51	412.99	7.31	0.48	0.64	393.3	0.014
16	10/12/2002	13:20	74.3	29.56	54	71.5	52.23	465.21	8.47	0.54	0.72	442.4	0.016
17	10/13/2002	14:23	72.8	29.62	62	71.4	60.10	525.31	9.84	0.61	0.81	499.1	0.018
18	10/14/2002	14:02	73.2	29.83	52	70.8	50.82	576.13	10.98	0.67	0.89	546.9	0.019
19	10/15/2002	15:08	74.0	29.71	53	71.6	51.51	627.64	12.07	0.73	0.97	595.4	0.021
20	10/16/2002	14:48	73.3	29.15	48	71.6	45.77	673.41	13.01	0.78	1.04	638.5	0.023
21	10/17/2002	13:49	73.3	29.41	46	71.1	44.30	717.71	13.87	0.83	1.11	680.2	0.024
22	10/18/2002	14:14	73.8	29.65	42	71.0	40.78	758.49	14.72	0.88	1.17	718.6	0.025
23	10/19/2002	14:52	74.4	29.56	37	71.0	35.82	794.31	15.54	0.92	1.23	752.2	0.027
24	10/20/2002	14:49	73.1	29.47	36	71.0	34.74	829.05	16.29	0.96	1.28	785.0	0.028
25	10/21/2002	15:53	73.2	29.65	32	71.5	31.04	860.09	17.04	1.00	1.33	814.2	0.029
26	10/22/2002	14:10	74.2	29.71	30	70.1	29.24	889.33	17.68	1.03	1.37	841.7	0.030
27	10/23/2002	17:03	73.7	29.77	34	71.5	33.12	922.45	18.43	1.07	1.43	872.8	0.031
28	10/24/2002	14:23	73.4	29.88	27	69.3	26.51	948.96	19.00	1.10	1.47	897.7	0.032
29	10/25/2002	15:19	74.3	29.85	30	71.3	29.31	978.27	19.64	1.14	1.51	925.3	0.033
30	10/26/2002	17:03	73.4	29.44	30	72.1	28.86	1007.13	20.29	1.17	1.56	952.5	0.034
31	10/28/2002	12:00	75.2	29.65	39	72.0	37.80	1044.93	21.32	1.22	1.62	988.0	0.035
32	10/29/2002	13:07	73.4	29.59	28	71.7	27.10	1073.03	21.90	1.25	1.66	1013.6	0.036
33	10/30/2002	15:19	73.4	29.41	29	71.2	27.92	1099.95	22.49	1.28	1.70	1039.9	0.037
34	10/31/2002	13:24	74.3	29.56	20	71.6	19.34	1119.29	22.98	1.30	1.73	1058.0	0.037
35	11/1/2002	14:51	73.4	29.50	20	70.8	19.33	1138.62	23.52	1.32	1.76	1076.2	0.038
36	11/4/2002	14:22	73.4	29.53	20	71.6	19.32	1157.94	25.00	1.35	1.79	1094.4	0.039
37	11/5/2002	13:52	73.4	29.59	26	71.3	25.18	1183.12	25.46	1.38	1.83	1118.2	0.039
38	11/6/2002	15:08	73.4	29.12	18	72.5	17.12	1200.23	25.95	1.40	1.86	1134.3	0.040
39	11/7/2002	13:57	73.4	29.62	22	72.1	21.30	1221.53	26.39	1.42	1.89	1154.4	0.041
40	11/8/2002	12:28	73.1	29.62	19	69.4	18.49	1240.02	26.81	1.44	1.92	1171.8	0.041
41	11/12/2002	14:21	74.3	29.50	56	70.7	54.13	1294.15	28.58	1.50	2.00	1222.6	0.043
42	11/13/2002	12:05	73.4	29.56	26	67.9	25.32	1319.47	28.96	1.53	2.04	1246.3	0.044
43	11/15/2002	7:48	73.4	29.53	32	69.1	31.06	1350.53	29.70	1.57	2.09	1275.4	0.045
44	11/18/2002	13:21	74.3	29.71	42	69.2	41.00	1391.53	30.98	1.62	2.15	1313.8	0.046
45	11/20/2002	13:13	73.4	29.71	37	69.9	36.08	1427.60	31.74	1.66	2.21	1347.7	0.048
46	11/27/2002	12:15	73.4	29.65	70	68.9	68.24	1495.85	34.27	1.74	2.31	1411.7	0.050
47	12/3/2002	13:32	74.3	29.91	65	68.9	63.92	1559.77	36.33	1.81	2.41	1471.5	0.052
48	12/5/2002	23:39	74.3	29.53	40	69.1	38.82	1598.59	37.12	1.86	2.47	1507.9	0.053
49	12/9/2002	9:45	74.3	30.12	40	69.1	39.60	1638.19	38.21	1.90	2.53	1545.0	0.055
50	12/11/2002	10:28	74.3	29.50	40	69.4	38.76	1676.95	38.85	1.95	2.59	1581.3	0.056
51	12/16/2002	7:37	73.4	29.23	40	68.9	38.44	1715.39	40.32	1.99	2.65	1617.3	0.057
52	12/18/2002	8:59	74.3	30.00	47	68.8	46.37	1761.76	40.93	2.05	2.72	1660.7	0.059
53	12/20/2002	8:16	73.4	29.00	22	73.1	20.81	1782.57	41.51	2.07	2.76	1680.4	0.059
54	12/23/2002	7:10	73.4	29.50	29	68.9	28.13	1810.70	42.35	2.11	2.80	1706.7	0.060
55	12/27/2002	6:54	73.4	29.80	28	68.9	27.43	1838.13	43.47	2.14	2.84	1732.5	0.061
56	12/30/2002	14:25	74.3	29.68	34	69.1	33.17	1871.30	44.37	2.18	2.89	1763.5	0.062
57	1/2/2003	13:47	73.4	29.47	32	69.6	30.97	1902.27	45.17	2.21	2.94	1792.6	0.063
58	1/6/2003	12:50	74.3	29.41	20	68.8	19.34	1921.61	46.21	2.23	2.97	1810.7	0.064
59	1/9/2003	15:44	72.5	28.94	34	68.8	32.36	1953.97	47.01	2.27	3.02	1841.1	0.065
60	1/13/2003	14:13	73.4	29.41	35	68.5	33.87	1987.84	48.01	2.31	3.07	1872.8	0.066
61	1/17/2003	9:30	73.4	29.41	30	68.6	29.03	2016.86	48.95	2.35	3.12	1900.0	0.067
62	1/21/2003	15:17	71.6	29.50	30	68.1	29.14	2046.01	49.98	2.38	3.16	1927.4	0.068
63	1/24/2003	14:48	73.4	29.70	22	69.1	21.48	2067.48	50.69	2.40	3.20	1947.5	0.069
64	1/30/2003	9:26	73.4	29.91	32	68.8	31.48	2098.96	52.04	2.44	3.24	1977.0	0.070
65	2/11/2003	13:16	74.3	29.38	61	69.2	58.89	2157.85	54.77	2.51	3.34	2032.2	0.072
66	2/20/2003	11:26	72.5	29.83	47	68.8	46.11	2203.95	56.69	2.56	3.41	2075.5	0.073
67	2/27/2003	15:07	74.3	29.59	45	68.8	43.79	2247.74	58.19	2.61	3.47	2116.5	0.075
68	3/7/2003	12:29	74.3	29.80	36	68.9	35.27	2283.02	59.79	2.65	3.53	2149.5	0.076
69	3/13/2003	15:23	72.5	29.32	37	69.1	35.66	2318.67	61.01	2.70	3.58	2183.0	0.077
70	3/28/2003	12:49	72.5	29.65	52	70.0	50.59	2369.26	63.87	2.75	3.66	2230.6	0.079
71	4/9/2003	10:57	73.5	29.59	50	69.9	48.55	2417.81	66.07	2.81	3.74	2276.2	0.080
72	4/29/2003	12:07	74.3	29.41	69	70.5	66.52	2484.33	69.62	2.89	3.84	2338.6	0.083
73	5/21/2003	14:10	74.3	29.62	73	70.9	70.83	2555.16	73.33	2.97	3.95	2405.2	0.085
74	6/16/2003	13:18	74.3	29.65	80	72.1	77.52	2632.68	77.46	3.06	4.07	2478.2	0.088
75	7/28/2003	10:28	74.3	29.38	110	71.6	105.72	2738.40	83.70	3.18	4.23	2577.6	0.091
76	9/8/2003	12:39	73.4	29.59	100	73.6	96.43	2834.83	89.53	3.30	4.38	2668.8	0.094
77	11/25/2003	12:17	73.4	29.71	92.5	72.5	89.75	2924.58	99.43	3.40	4.52	2753.6	0.097
78	12/7/2003												

Middle Kittanning coal bed, con't.

Canister 4 - WV-02-B3-13

Project:	DOE/WVGES/USGS	Can no.:	WV-02-B3-13	Cumulative volume @ STP:	3213.5	Raw total gas (cc/g):	4.34
Well ID:	306-061 (Middle Kitt., L.S.)			Milliliters/gram raw coal:	4.34	DAF total gas (cc/g):	4.71
Sample Interval (ft):	From: 1189	To: 1190		Milliliter/gram coal d.a.f.:	4.71	Raw total gas (SCF/ton):	138.96
Core Date: (mm/dd/yr)	10/9/2002			(excluding lost gas)		DAF total gas (SCF/ton):	150.78
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	13:31			Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A
Raw coal mass (air-dry): (grams)	740						
Coal mass (d.a.f.): (grams)	682						
Headspace volume: (cc)	0						
Sample Type	Core	Cuttings	Data Summary	Preliminary	Final Results		

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	m/gram Raw Coal	m/g d.a.f. Coal	Headspace Correction Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HHMM	° F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(hrs. ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	10/9/2002	13:52		28.94	0		0.00	0.00	0.59	0.00	0.00	0.0	0.0
1	10/9/2002	14:07	68.4	28.88	46	72.5	43.38	43.38	0.77	0.06	0.06	41.3	0.001
2	10/9/2002	14:13	68.4	28.88	12	72.5	11.32	54.70	0.84	0.07	0.08	52.1	0.002
3	10/9/2002	14:15	68.4	28.88	20	72.5	18.86	73.56	0.86	0.10	0.11	70.1	0.002
4	10/9/2002	14:26	68.4	28.88	13	72.5	12.26	85.82	0.96	0.12	0.13	81.8	0.003
5	10/9/2002	14:39	69.1	28.91	13	72.0	12.28	98.11	1.06	0.13	0.14	93.5	0.003
6	10/9/2002	15:10	69.8	28.91	23	73.2	21.69	119.80	1.28	0.16	0.18	114.1	0.004
7	10/9/2002	16:55	73.1	28.91	52	73.1	49.04	168.83	1.84	0.23	0.25	160.5	0.006
8	10/9/2002	18:04	72.5	28.91	30	73.0	28.30	197.13	2.13	0.27	0.29	187.2	0.007
9	10/9/2002	19:11	72.4	28.94	22	72.5	20.79	217.92	2.38	0.29	0.32	206.9	0.007
10	10/10/2002	9:15	64.0	28.91	123	71.1	116.43	334.36	4.44	0.45	0.49	318.5	0.011
11	10/10/2002	14:08	68.9	28.91	60	71.1	56.80	391.15	4.96	0.53	0.57	372.4	0.013
12	10/10/2002	15:56	69.9	28.94	28	71.1	26.53	417.68	5.14	0.56	0.61	397.6	0.014
13	10/10/2002	18:20	70.5	28.94	22	71.1	20.85	438.53	5.37	0.59	0.64	417.3	0.015
14	10/11/2002	9:39	64.0	28.85	60	71.1	56.68	495.21	6.64	0.67	0.73	471.6	0.017
15	10/11/2002	12:23	63.5	28.85	28	69.5	26.53	521.74	6.85	0.71	0.77	497.0	0.018
16	10/11/2002	18:58	71.2	28.82	22	72.7	20.70	542.44	7.31	0.73	0.80	516.6	0.018
17	10/12/2002	13:22	74.3	29.56	60	71.5	58.03	600.47	8.48	0.81	0.88	571.2	0.020
18	10/13/2002	14:24	72.8	29.62	79	71.0	76.63	677.10	9.84	0.91	0.99	643.4	0.023
19	10/14/2002	14:03	73.2	29.83	65	70.4	63.57	740.67	10.98	1.00	1.09	703.2	0.025
20	10/15/2002	15:09	74.0	29.71	55	70.0	53.61	794.28	12.07	1.07	1.16	753.5	0.027
21	10/16/2002	14:48	73.3	29.15	61	70.5	58.29	852.57	13.01	1.15	1.25	808.4	0.029
22	10/17/2002	13:49	73.3	29.14	53	70.3	50.65	903.22	13.87	1.22	1.32	856.0	0.030
23	10/18/2002	14:22	73.8	29.65	50	69.3	48.71	951.92	14.73	1.29	1.40	901.6	0.032
24	10/19/2002	14:52	74.4	29.56	47	70.1	45.58	997.50	15.54	1.35	1.46	944.4	0.033
25	10/20/2002	14:32	73.1	29.47	43	70.2	41.56	1039.06	16.28	1.40	1.52	983.5	0.035
26	10/21/2002	15:53	73.2	29.65	40	72.9	38.70	1077.77	17.04	1.46	1.58	1020.1	0.036
27	10/22/2002	14:11	74.2	29.71	36	69.9	35.10	1112.87	17.68	1.50	1.63	1053.0	0.037
28	10/23/2002	17:06	73.7	29.77	42	69.9	41.03	1153.90	18.43	1.56	1.69	1091.5	0.039
29	10/24/2002	14:25	73.4	29.88	34	69.3	33.38	1187.28	19.00	1.60	1.74	1122.8	0.040
30	10/25/2002	15:20	74.3	29.85	34	69.2	33.35	1220.63	19.64	1.65	1.79	1154.0	0.041
31	10/26/2002	17:03	73.4	29.44	34	70.0	32.84	1253.47	20.29	1.69	1.84	1184.9	0.042
32	10/28/2002	12:00	75.2	29.65	48	69.9	46.71	1300.17	21.32	1.76	1.91	1228.6	0.043
33	10/29/2002	13:07	73.4	29.59	26	69.2	25.28	1325.45	21.90	1.79	1.94	1252.3	0.044
34	10/30/2002	15:21	73.4	29.41	34	68.9	32.88	1358.33	22.49	1.84	1.99	1283.2	0.045
35	10/31/2002	13:25	74.3	29.56	11	69.3	10.68	1369.02	22.98	1.85	2.01	1293.2	0.046
36	11/1/2002	14:52	73.4	29.50	23	69.3	22.29	1391.31	23.52	1.88	2.04	1314.1	0.046
37	11/4/2002	14:23	73.4	29.53	54	68.9	52.43	1443.74	25.00	1.95	2.12	1363.2	0.048
38	11/5/2002	13:53	73.4	29.59	31	69.3	30.14	1473.87	25.46	1.99	2.16	1391.5	0.049
39	11/6/2002	15:08	73.4	29.12	30	69.9	28.67	1502.54	25.95	2.03	2.20	1418.5	0.050
40	11/7/2002	13:57	73.4	29.62	10	69.5	9.73	1512.27	26.39	2.04	2.22	1427.6	0.050
41	11/8/2002	12:28	73.1	29.62	21	69.4	20.43	1532.70	26.81	2.07	2.25	1446.8	0.051
42	11/12/2002	13:22	74.3	29.50	67	70.7	64.77	1597.47	28.56	2.16	2.34	1507.6	0.053
43	11/13/2002	12:05	73.4	29.56	32	67.9	31.16	1628.63	28.96	2.20	2.39	1536.8	0.054
44	11/15/2002	7:48	73.4	29.53	37	69.1	35.91	1664.54	29.70	2.25	2.44	1570.4	0.055
45	11/18/2002	13:21	74.3	29.71	50	69.2	48.81	1713.35	30.98	2.32	2.51	1616.2	0.057
46	11/20/2002	13:14	73.4	29.71	42	69.9	40.95	1754.30	31.74	2.37	2.57	1654.6	0.058
47	11/27/2002	12:14	73.4	29.65	80	68.9	77.99	1832.29	34.27	2.48	2.69	1727.7	0.061
48	12/3/2002	13:33	74.3	29.91	83	68.9	81.62	1913.92	36.33	2.59	2.81	1804.1	0.064
49	12/5/2002	11:40	74.3	29.53	50	69.1	48.53	1962.45	36.96	2.65	2.88	1849.6	0.065
50	12/9/2002	9:45	74.3	30.12	49	69.1	48.51	2010.95	38.21	2.72	2.95	1895.0	0.067
51	12/11/2002	10:28	74.3	29.50	41	69.4	39.73	2050.68	38.85	2.77	3.01	1932.2	0.068
52	12/16/2002	7:37	73.4	29.23	50	68.9	48.05	2098.74	40.32	2.84	3.08	1977.3	0.070
53	12/18/2002	9:00	74.3	30.00	33	68.8	32.56	2131.29	40.93	2.88	3.13	2007.7	0.071
54	12/20/2002	8:17	73.4	29.00	35	70.1	33.30	2164.59	41.51	2.93	3.17	2039.0	0.072
55	12/23/2002	7:11	73.4	29.50	33	68.9	32.01	2196.60	42.35	2.97	3.22	2069.0	0.073
56	12/27/2002	6:55	73.4	29.80	40	68.9	39.19	2235.79	43.47	3.02	3.28	2105.8	0.074
57	12/30/2002	14:26	74.3	29.68	37	69.1	36.09	2271.88	44.37	3.07	3.33	2139.6	0.076
58	1/2/2003	13:47	73.4	29.47	35	69.6	33.87	2305.75	45.17	3.12	3.38	2171.4	0.077
59	1/6/2003	12:51	74.3	29.41	34	68.8	32.88	2338.64	46.21	3.16	3.43	2202.2	0.078
60	1/9/2003	15:44	72.5	28.94	40	68.8	38.07	2376.70	47.01	3.21	3.48	2237.9	0.079
61	1/13/2003	14:14	73.4	29.41	36	68.5	34.84	2411.54	48.01	3.26	3.54	2270.5	0.080
62	1/17/2003	9:30	73.4	29.41	34	68.6	32.90	2444.44	48.95	3.30	3.58	2301.4	0.081
63	1/21/2003	15:17	71.6	29.50	35	68.1	34.00	2478.44	49.98	3.35	3.63	2333.3	0.082
64	1/24/2003	14:48	73.4	29.77	27	69.1	26.42	2504.85	50.69	3.38	3.67	2368.1	0.083
65	1/30/2003	10:27	73.4	29.91	36	68.8	35.41	2540.26	52.05	3.43	3.72	2391.3	0.084
66	2/11/2003	13:17	74.3	29.38	66	69.2	63.72	2603.98	54.77	3.52	3.82	2450.9	0.087
67	2/20/2003	11:26	72.5	29.83	55	68.8	53.95	2657.94	56.69	3.59	3.90	2501.6	0.088
68	2/27/2003	15:09	74.3	29.59	50	68.8	48.65	2706.59	58.19	3.66	3.97	2547.1	0.090
69	3/7/2003	12:30	74.3	29.80	27	68.9	26.45	2733.05	59.79	3.69	4.01	2571.9	0.091
70	3/13/2003	15:24	72.5	29.32	39	69.1	37.58	2770.63	61.01	3.74	4.06	2607.2	0.092
71	3/28/2003	12:49	72.5	29.85	58	70.0	56.43	2827.05	63.87	3.82	4.15	2660.3	0.094
72	4/9/2003	11:00	73.9	29.59	57	69.9	55.35	2882.40	66.07	3.90	4.23	2712.3	0.096
73	4/29/2003	12:08	74.3	29.41	40	70.5	35.56	2920.97	69.62	3.95	4.28	2748.5	0.097
74	5/21/2003	14:11	74.3	29.62	79	70.9	76.65	2997.61	73.33	4.05	4.40	2820.5	0.100
75	6/16/2003	13:19	74.3	29.65	85	72.1	82.37	3079.98	77.46	4.16	4.52	2898.0	0.102
76	7/28/2003	10:29	74.3	29.38	99	71.6	95.15	3175.13	83.70	4.29	4.66	2987.5	0.106
77	9/8/2003	12:40	73.4	29.59	105	73.6	101.25	3276.38	89.53	4.43	4.80	3083.3	0.109
78	11/25/2003	12:20	73.4	29.71	95	69.3	92.73	3369.11	99.43	4.55	4.94	3170.3	0.112
79	12/7/2003	10:19	72.5	29.71	47	72.5	45.60	3414.71	100				

Canister 5 - WV-02-CB3-11

Project DOE/VVGGES/USGS		Cumulative volume @ STP: 1648.3		Raw total gas (cc/g) 3.88
Well ID: 306-061 (M.Kittanning-L)	Split no. 1	WV-02-CB3-11	Milliliters/gram raw coal: 3.87	DAF total gas (cc/g) 4.64
Sample Interval (ft):	From: 1190	To: 1190.45	Milliliter/gram coal d.a.f.: 4.63	Raw total gas (SCF/ton) 124.19
Core Date: (mm/dd/yr)	10/9/2002		Lost gas estimate (cc) 5	DAF total gas (SCF/ton) 148.61
Time Zero-Coal penetrated (hrs:mm) (24 hour clock)	13:38		(from lost gas graph)	Cuttings correction 25% (SCF/ton) N/A
Raw coal mass (air-dry): (grams)	426			
Coal mass d.a.f.: (grams)	356			
Headspace volume: (cc)	0			

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f.	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content	
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ²)	Mass	Mass	(milliliter)	(SCF)	
In Can.														
1	10/9/2002	13:53	68.4	28.94	0	72.5	0.00	0.50	0.00	0.01	0.02	0.0		
2	10/9/2002	14:08	68.4	28.88	6	72.5	5.66	5.66	0.71	0.01	0.02	5.4	0.000	
3	10/9/2002	14:16	68.4	28.88	2	72.5	1.89	7.55	0.80	0.02	0.02	7.2	0.000	
4	10/9/2002	14:27	68.4	28.88	4	72.5	3.77	11.32	0.90	0.03	0.03	10.8	0.000	
5	10/9/2002	14:40	69.1	28.91	5	72.0	4.72	16.04	1.02	0.04	0.05	15.3	0.001	
6	10/9/2002	15:10	69.8	28.91	7	73.0	6.60	22.65	1.24	0.05	0.06	21.6	0.001	
7	10/9/2002	16:59	73.1	28.91	0	73.1	0.00	22.65	1.33	0.05	0.06	21.6	0.001	
8	10/9/2002	18:05	72.3	28.91	24	73.0	22.64	45.28	2.11	0.11	0.13	43.0	0.002	
9	10/9/2002	19:12	72.4	28.94	11	72.5	10.40	55.68	2.36	0.13	0.16	52.8	0.002	
10	10/10/2002	9:18	64.0	28.91	30	71.1	28.40	84.08	4.43	0.20	0.24	80.0	0.003	
11	10/10/2002	14:09	69.1	28.91	23	71.1	21.77	105.85	4.95	0.25	0.30	100.7	0.003	
12	10/10/2002	15:56	69.9	28.94	1	71.0	0.95	106.80	5.13	0.25	0.30	101.6	0.004	
13	10/10/2002	18:21	70.5	28.94	20	71.1	18.95	125.75	5.36	0.30	0.35	119.5	0.004	
14	10/11/2002	9:46	64.0	28.85	28	69.9	26.51	152.26	6.64	0.36	0.43	144.9	0.005	
15	10/11/2002	12:16	63.5	28.85	24	69.8	22.73	174.98	6.83	0.41	0.49	166.6	0.006	
16	10/11/2002	18:58	71.2	28.82	11	72.7	10.35	185.33	7.30	0.44	0.52	176.5	0.006	
17	10/12/2002	13:22	74.3	29.56	28	71.5	20.78	212.41	8.47	0.50	0.60	201.9	0.007	
18	10/13/2002	14:25	72.8	29.62	24	71.0	23.28	235.69	9.84	0.55	0.66	223.9	0.008	
19	10/14/2002	14:03	73.2	29.83	27	70.4	26.41	262.10	10.97	0.62	0.74	248.7	0.009	
20	10/15/2002	15:10	74.0	29.71	29	70.0	28.27	290.37	12.06	0.68	0.82	275.2	0.010	
21	10/16/2002	14:49	73.3	29.15	28	70.5	26.76	317.13	13.01	0.74	0.89	300.4	0.011	
22	10/17/2002	13:50	73.3	29.44	4	70.3	3.86	320.99	13.86	0.75	0.90	304.0	0.011	
23	10/18/2002	14:25	73.8	29.65	37	70.1	35.99	356.98	14.72	0.84	1.00	337.8	0.012	
24	10/19/2002	14:50	74.4	29.56	9	70.1	8.73	365.70	15.53	0.86	1.03	346.0	0.012	
25	10/20/2002	14:54	73.1	29.47	37	71.8	23.13	388.83	16.29	0.91	1.09	367.8	0.013	
26	10/21/2002	15:54	73.2	29.65	23	72.7	22.26	411.09	17.04	0.97	1.15	388.9	0.014	
27	10/22/2002	14:12	74.2	29.71	21	69.9	20.48	431.57	17.68	1.01	1.21	408.1	0.014	
28	10/23/2002	17:08	73.7	29.77	24	69.9	23.45	455.02	18.43	1.07	1.28	430.1	0.015	
29	10/24/2002	14:26	73.4	29.88	18	69.3	17.67	472.69	18.99	1.11	1.33	446.6	0.016	
30	10/25/2002	15:21	74.3	29.85	20	69.2	19.62	492.30	19.64	1.16	1.38	465.0	0.016	
31	10/26/2002	17:04	73.4	29.44	20	70.0	19.32	511.62	20.28	1.20	1.44	483.2	0.017	
32	10/28/2002	12:01	75.2	29.65	28	69.9	27.24	538.87	21.32	1.26	1.51	508.7	0.018	
33	10/29/2002	13:07	73.4	29.59	20	69.2	19.45	558.31	21.90	1.31	1.57	526.9	0.019	
34	10/30/2002	15:22	73.4	29.41	17	69.3	16.44	574.75	22.49	1.35	1.61	542.3	0.019	
35	10/31/2002	13:25	74.3	29.56	14	69.3	13.60	588.35	22.97	1.38	1.65	555.1	0.020	
36	11/1/2002	14:52	73.4	29.50	19	69.3	18.41	606.77	23.52	1.42	1.70	573.3	0.020	
37	11/4/2002	14:23	73.4	29.53	30	68.9	29.13	635.89	24.99	1.49	1.79	599.7	0.021	
38	11/5/2002	13:53	73.4	29.59	24	69.3	23.33	659.22	25.46	1.55	1.85	621.6	0.022	
39	11/6/2002	15:09	73.4	29.12	20	69.9	19.11	678.34	25.95	1.59	1.91	639.5	0.023	
40	11/7/2002	13:57	73.4	29.62	9	69.5	8.76	687.09	26.39	1.61	1.93	647.7	0.023	
41	11/8/2002	12:29	73.1	29.62	11	71.5	10.66	697.75	26.81	1.64	1.96	657.8	0.023	
42	11/12/2002	13:23	73.3	29.56	30	70.7	29.00	726.75	27.56	1.71	2.04	685.0	0.024	
43	11/13/2002	12:06	73.4	29.56	14	67.9	13.63	740.38	28.96	1.74	2.08	697.8	0.025	
44	11/15/2002	7:49	73.4	29.53	21	69.1	20.38	760.77	29.90	1.79	2.14	716.9	0.025	
45	11/18/2002	13:22	74.3	29.71	27	69.2	26.36	787.13	30.98	1.85	2.21	741.6	0.026	
46	11/20/2002	13:14	73.4	29.71	11	69.9	10.73	797.85	31.74	1.87	2.24	751.6	0.027	
47	11/27/2002	12:14	73.4	29.65	48	68.9	46.79	844.65	34.27	1.98	2.37	795.5	0.028	
48	12/3/2002	13:34	74.3	29.91	48	68.9	47.20	891.85	36.33	2.09	2.51	839.7	0.030	
49	12/5/2002	11:40	74.3	29.53	26	69.1	25.23	917.08	36.96	2.15	2.58	863.3	0.030	
50	12/9/2002	9:46	74.3	30.12	28	69.1	27.72	944.80	38.21	2.23	2.65	889.3	0.031	
51	12/11/2002	10:29	74.3	29.50	23	69.4	22.29	967.09	38.84	2.27	2.72	910.2	0.032	
52	12/16/2002	7:38	73.4	29.23	33	68.9	31.72	998.81	40.93	2.34	2.81	939.9	0.033	
53	12/18/2002	9:01	74.3	30.00	13	68.8	12.83	1011.63	43.23	2.37	2.84	951.9	0.034	
54	12/20/2002	8:18	73.4	29.00	19	70.1	18.08	1029.71	41.51	2.42	2.89	968.9	0.034	
55	12/23/2002	7:12	73.4	29.50	18	68.9	17.46	1047.16	42.35	2.46	2.94	985.3	0.035	
56	12/27/2002	6:56	73.4	29.80	24	68.9	23.52	1070.68	43.47	2.51	3.01	1007.3	0.036	
57	12/30/2002	14:26	74.3	29.68	21	69.1	20.49	1091.17	44.37	2.56	3.07	1026.5	0.036	
58	1/2/2003	13:48	73.4	29.47	20	69.6	19.35	1110.52	45.17	2.61	3.12	1044.7	0.037	
59	1/6/2003	12:51	74.3	29.41	18	68.8	17.41	1127.93	46.21	2.65	3.17	1060.9	0.037	
60	1/9/2003	15:45	72.5	28.94	26	68.8	24.74	1152.67	47.01	2.71	3.24	1084.2	0.038	
61	1/13/2003	14:15	73.4	29.41	24	68.5	23.23	1175.90	48.01	2.76	3.30	1105.9	0.039	
62	1/17/2003	9:31	73.4	29.41	20	68.6	19.35	1195.25	48.95	2.81	3.36	1124.1	0.040	
63	1/21/2003	15:17	71.6	29.50	21	68.1	20.40	1215.65	49.98	2.85	3.41	1143.2	0.040	
64	1/24/2003	14:49	73.4	29.77	16	69.1	15.66	1231.30	50.69	2.89	3.46	1157.9	0.041	
65	1/30/2003	9:28	73.4	29.91	22	68.8	21.64	1252.94	52.04	2.94	3.52	1178.2	0.042	
66	2/11/2003	13:18	74.3	29.38	47	69.2	45.38	1298.32	54.77	3.05	3.65	1220.7	0.043	
67	2/20/2003	11:27	72.5	29.83	33	68.8	32.37	1330.69	56.69	3.12	3.74	1251.1	0.044	
68	2/27/2003	15:09	74.3	29.59	32	68.8	31.14	1361.83	58.19	3.20	3.83	1280.2	0.045	
69	3/7/2003	12:32	74.3	29.80	30	68.9	29.39	1391.22	59.79	3.27	3.91	1307.7	0.046	
70	3/13/2003	15:25	72.5	29.32	24	69.1	23.13	1414.35	61.01	3.32	3.97	1329.5	0.047	
71	3/28/2003	12:49	72.5	29.65	35	73.0	33.86	1448.21	63.87	3.40	4.07	1361.5	0.048	
72	4/9/2003	11:01	73.9	29.59	38	69.9	36.90	1485.11	66.07	3.49	4.17	1396.1	0.049	
73	4/29/2003	12:08	74.3	29.41	32	70.5	30.85	1515.96	69.62	3.56	4.26	1425.1	0.050	
74	5/21/2003	14:12	74.3	29.62	41	70.9	39.78	1555.74	73.33	3.65	4.37	1462.5	0.052	
75	6/16/2003	13:20	74.3	29.65	45	72.1	43.61	1599.34	77.46	3.75	4.49	1503.5	0.053	
76	7/28/2003	10:30	74.3	29.38	57	71.6	54.78	1654.12	83.70	3.88	4.65	1555.1	0.055	
77	9/8/2003	12:41	73.4	29.59	55	73.6	53.04	1707.16	89.53	4.01	4.80	1605.3	0.057	
78	11/25/2003	12:23	73.4	29.71	47	69.3	45.88	1753.04	99.43	4.12	4.92	1648.3	0.058	
79	12/7/2003	10:14	72.5	29.71	0	72.5	0.00	1753.04	100.86	4.12	4.92	1648.3	0.058	
80	Stopped analyses													
81	Measured ash content 16.34 %													

Canister 1 – WV-02-B3-14

Project DOE/VV/GES/USGS		Cumulative volume @ STP: 1055.0		Raw total gas (cc/g) 1.54	
Well ID: 306-061 (Clarion Core 3)	Can no. WV-02-B3-14	Milliliters/gram raw coal: 1.54		DAF total gas (cc/g) 4.24	
Sample Interval (ft): From: 1270.5	To: 1271.5	Milliliter/gram coal d.a.f.: 4.24		Raw total gas (SCF/ton) 49.14	
Core Date: (mm/dd/yr) 10/10/2002	8:24	(excluding lost gas)		DAF total gas (SCF/ton) 135.58	
Time Zero-Coal penetrated (hh:mm) (24 hour clock) 6:87	249	Lost gas estimate (cc) 0		Cuttings correction 25% (SCF/ton) N/A	
Raw coal mass (air-dry): (grams) 687	0	(from lost gas graph)			
Coal mass (d.a.f.): (grams)					
Headspace volume: (cc)					

Enter data only in shaded areas, copy and paste formulas as needed to calculate more description data (columns H through N)														
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Elapsed Time	m/gram Raw Coal	m/g.a.f Coal	Cumulative Volume @ STP	Gas Content	Correction Cumulative
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ⁰⁰)	Mass	Mass	(@ STP)	(SCF)	
In Can	10/10/2002	8:42		28.94	0		0.00	0.00	0.55	0.00	0.00	0.0	0.0	
1	10/10/2002	8:52	64.0	28.91	10	71.1	9.47	9.47	0.68	0.01	0.04	9.1	0.000	
2	10/10/2002	9:01	64.0	28.91	10	71.1	2.84	12.31	0.79	0.02	0.05	11.8	0.000	
3	10/10/2002	9:12	64.0	28.91	3	71.1	2.84	15.15	0.89	0.02	0.05	14.5	0.001	
4	10/10/2002	9:22	64.0	28.91	3	71.1	2.84	17.99	0.98	0.03	0.07	17.3	0.001	
5	10/10/2002	9:49	69.8	28.91	4	70.4	3.79	21.78	1.19	0.03	0.09	20.8	0.001	
6	10/10/2002	10:50	69.8	28.91	9	69.9	8.54	30.32	1.56	0.04	0.12	28.9	0.001	
7	10/10/2002	14:10	69.8	28.91	19	71.1	17.99	48.30	2.40	0.07	0.19	45.9	0.002	
8	10/10/2002	15:58	69.9	28.91	8	71.1	7.57	55.87	2.75	0.08	0.22	53.1	0.002	
9	10/10/2002	18:23	70.5	28.94	11	71.1	10.42	66.30	3.16	0.10	0.27	63.0	0.002	
10	10/11/2002	9:26	63.5	28.85	28	69.9	26.51	92.81	5.00	0.14	0.37	88.4	0.003	
11	10/11/2002	12:14	63.5	28.85	11	69.8	10.42	103.22	5.28	0.15	0.41	98.3	0.003	
12	10/11/2002	19:00	71.1	28.82	6	72.7	5.64	108.87	5.88	0.16	0.44	103.7	0.004	
13	10/12/2002	13:24	74.3	29.56	19	71.5	18.38	127.24	7.28	0.19	0.51	121.0	0.004	
14	10/13/2002	14:26	72.8	29.62	22	71.0	21.34	148.59	8.83	0.22	0.60	141.1	0.005	
15	10/14/2002	14:55	73.2	29.83	17	70.4	16.63	165.21	10.08	0.24	0.66	156.7	0.006	
16	10/15/2002	15:11	74.0	29.71	19	70.0	18.52	183.73	11.26	0.27	0.74	171.1	0.006	
17	10/16/2002	14:52	73.3	29.15	18	70.0	17.20	201.93	10.27	0.29	0.81	190.3	0.007	
18	10/17/2002	13:52	73.3	29.44	14	70.3	13.52	214.45	13.17	0.31	0.86	203.0	0.007	
19	10/18/2002	14:26	73.8	29.65	15	70.1	14.59	229.04	14.07	0.33	0.92	216.7	0.008	
20	10/19/2002	14:54	74.4	29.56	10	70.1	9.70	238.74	14.92	0.35	0.96	225.8	0.008	
21	10/20/2002	14:59	73.1	29.50	12	70.2	11.61	250.35	15.70	0.36	1.01	236.7	0.008	
22	10/21/2002	15:55	73.2	29.65	10	72.7	9.68	260.03	16.48	0.38	1.04	245.8	0.009	
23	10/22/2002	14:13	74.2	29.71	10	69.9	9.75	269.78	17.14	0.39	1.08	255.0	0.009	
24	10/23/2002	17:11	73.7	29.77	13	69.9	12.70	282.48	17.91	0.41	1.13	266.9	0.009	
25	10/24/2002	14:27	73.4	29.88	9	69.3	8.84	291.31	18.49	0.42	1.17	275.2	0.010	
26	10/25/2002	15:22	74.3	29.85	12	69.2	11.77	303.08	19.16	0.44	1.22	286.2	0.010	
27	10/26/2002	17:05	73.4	29.44	10	70.0	9.66	312.74	19.82	0.46	1.26	295.3	0.010	
28	10/28/2002	12:02	75.2	29.65	11	69.9	10.70	323.44	20.87	0.47	1.30	305.3	0.011	
29	10/29/2002	13:09	73.4	29.59	5	69.2	4.86	328.31	21.47	0.48	1.32	309.9	0.011	
30	10/30/2002	15:29	73.4	29.41	10	68.9	9.67	337.98	22.07	0.49	1.36	319.0	0.011	
31	10/31/2002	15:13	73.3	29.62	6	68.9	5.83	343.80	22.56	0.50	1.38	323.1	0.011	
32	11/1/2002	14:53	73.4	29.50	5	69.3	5.82	349.62	23.12	0.51	1.40	329.9	0.012	
33	11/4/2002	14:24	73.4	29.53	5	68.9	5.83	345.47	24.62	0.52	1.42	334.4	0.012	
34	11/5/2002	13:55	73.4	29.59	8	69.3	7.78	352.25	25.09	0.53	1.45	341.7	0.012	
35	11/6/2002	15:10	73.4	29.12	8	69.9	7.65	369.90	25.59	0.54	1.49	348.9	0.012	
36	11/7/2002	13:59	73.4	29.62	5	69.5	4.86	374.76	26.03	0.55	1.51	353.5	0.012	
37	11/8/2002	12:30	73.1	29.62	6	69.4	5.84	380.60	26.46	0.55	1.53	358.9	0.013	
38	11/12/2002	13:24	74.3	29.50	20	70.7	19.33	399.93	28.23	0.58	1.61	377.1	0.013	
39	11/13/2002	12:07	73.4	29.56	14	67.9	13.63	413.56	28.63	0.60	1.66	389.9	0.014	
40	11/15/2002	7:50	73.4	29.53	11	69.1	10.68	424.24	29.38	0.62	1.70	399.9	0.014	
41	11/18/2002	13:23	74.3	29.71	15	69.2	14.64	438.88	30.68	0.64	1.76	413.6	0.015	
42	11/20/2002	13:15	73.4	29.71	14	69.9	13.65	452.53	31.45	0.66	1.82	426.4	0.015	
43	11/27/2002	12:10	73.4	29.65	30	68.9	29.25	481.78	34.07	0.70	1.93	453.8	0.016	
44	12/3/2002	13:36	74.3	29.91	23	68.9	22.62	504.40	36.00	0.73	2.03	475.0	0.017	
45	12/5/2002	9:41	71.5	29.53	16	69.3	15.15	519.53	33.71	0.76	2.09	476	0.017	
46	12/9/2002	9:47	74.3	30.12	14	69.1	13.86	533.79	37.97	0.78	2.14	502.5	0.018	
47	12/11/2002	10:30	74.3	29.50	15	69.4	14.54	548.32	38.60	0.80	2.20	516.1	0.018	
48	12/16/2002	7:40	73.4	29.23	18	68.9	17.30	565.62	40.09	0.82	2.27	532.4	0.019	
49	12/18/2002	9:03	74.3	30.00	10	68.8	9.87	575.49	40.70	0.84	2.31	541.6	0.019	
50	12/20/2002	8:20	73.4	29.00	12	70.1	11.42	586.90	41.28	0.85	2.36	552.3	0.020	
51	12/23/2002	7:13	73.4	29.50	10	68.9	9.70	596.60	42.13	0.87	2.40	561.4	0.020	
52	12/27/2002	6:57	73.4	29.80	11	68.9	10.78	607.38	43.25	0.88	2.44	571.5	0.020	
53	12/30/2002	14:28	74.3	29.68	12	69.1	11.71	619.09	44.16	0.90	2.49	582.5	0.021	
54	1/2/2003	13:49	73.4	29.47	12	69.6	11.61	630.70	44.96	0.92	2.53	593.4	0.021	
55	1/6/2003	12:53	74.3	29.41	14	68.8	13.54	644.24	46.01	0.94	2.59	606.0	0.021	
56	1/9/2003	15:46	72.5	28.94	18	68.8	17.13	661.37	46.81	0.96	2.66	622.1	0.022	
57	1/13/2003	14:16	73.4	29.41	15	68.5	14.52	675.88	47.81	0.98	2.71	635.7	0.022	
58	1/17/2003	9:32	73.4	29.41	12	68.6	11.61	687.49	48.76	1.00	2.76	646.6	0.023	
59	1/21/2003	15:18	71.6	29.50	16	68.8	16.63	704.18	49.76	1.02	2.80	658.3	0.023	
60	1/24/2003	14:52	73.4	29.77	8	69.1	7.83	706.01	50.50	1.03	2.84	664.0	0.024	
61	1/30/2003	9:29	73.4	29.91	12	68.8	11.80	717.81	51.86	1.04	2.88	675.1	0.024	
62	2/11/2003	13:19	74.3	29.38	28	69.2	27.03	744.84	54.60	1.08	2.99	700.4	0.025	
63	2/20/2003	11:28	72.5	29.83	17	68.8	16.68	761.52	56.52	1.11	3.06	716.0	0.025	
64	2/27/2003	15:10	74.3	29.59	20	68.8	19.46	780.98	58.02	1.14	3.14	734.2	0.026	
65	3/7/2003	12:33	74.3	29.80	18	68.9	17.64	798.62	59.63	1.16	3.21	750.8	0.027	
66	3/13/2003	15:25	72.5	29.32	16	69.1	15.42	814.04	60.85	1.18	3.27	765.2	0.027	
67	3/28/2003	12:51	72.5	29.65	21	70.0	20.43	834.47	63.72	1.21	3.35	784.5	0.028	
68	4/9/2003	11:04	73.9	29.59	23	69.9	22.33	856.80	65.93	1.25	3.44	805.4	0.028	
69	4/29/2003	12:10	74.3	29.41	36	70.5	34.71	891.51	69.48	1.30	3.58	838.0	0.030	
70	5/21/2003	14:13	74.3	29.62	33	70.9	32.02	923.52	73.20	1.34	3.71	868.1	0.031	
71	6/16/2003	12:33	74.3	29.65	37	72.1	35.85	959.38	77.34	1.40	3.85	901.9	0.032	
72	7/28/2003	12:42	74.3	29.38	47	71.6	45.17	1004.55	83.58	1.46	4.03	944.3	0.033	
73	9/8/2003	13:43	73.4	29.59	50	73.6	44.22	1048.76	83.42	1.53	4.23	990.3	0.038	
74	11/25/2003	13:33	73.4	29.71	50	69.3	48.81	1101.57	99.34	1.60	4.42	1035.7	0.037	
75	12/7/2003	10:01	72.5	29.71	21	72.5	20.37	1121.95	100.77	1.63	4.51	1055.0	0.037	
76		Stopped analyses												
77		Measured ash content = 63.69 %												

Clarion coal zone, con't.

Canister 2 - WV-02-B3-15

Project **DOE/WVGES/USGS**
Well ID: **306-061 (Clarion Core)** Can no. **WV-02-B3-15**
Sample Interval (ft): From: **1271.5** To: **1272.35**
Core Date: (mm/dd/yr) **10/10/2002**
Time Zero-Coal penetrated (hh:mm) (24 hour clock) **8:24**
Raw coal mass (air-dry): (grams) **1168**
Coal mass (d.a.f.): (grams) **1009**
Headspace volume: (cc) **0**

Cumulative volume @ STP: **2574.2** Raw total gas (cc/g) **2.20**
Milliliters/gram raw coal: **2.20** DAF total gas (cc/g) **2.55**
Milliliter/gram coal d.a.f.: **2.55** Raw total gas (SCF/ton) **70.52**
(excluding lost gas)
Lost gas estimate (cc) **0** DAF total gas (SCF/ton) **81.64**
(from lost gas graph)
Cuttings correction 25% (SCF/ton) **N/A**

Sample Type ☒ Core ☐ Cuttings

5 Data Summary ☒ Preliminary ☐ Final Results

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace	Correction
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Volume	Cumulative
		Clock	'F	Hg	Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	@ STP	Gas
		HH:MM			(milliliter)	'F	(milliliter)	(milliliter)	(Hrs ¹⁵)	Mass	Mass	(milliliter)	Content
In Can		8:41		28.94	0		0.00	0.00	0.53	0.00	0.00	0.0	0.0
1	10/10/2002	8:51	64.0	28.91	16	71.1	15.15	15.15	0.67	0.01	0.02	14.5	0.001
2	10/10/2002	9:02	64.0	28.91	8	71.1	7.57	22.72	0.80	0.02	0.02	21.8	0.001
3	10/10/2002	9:13	64.0	28.91	9	71.1	8.52	31.24	0.90	0.03	0.03	29.9	0.001
4	10/10/2002	9:24	64.0	28.91	11	71.1	10.41	41.65	1.00	0.04	0.04	39.9	0.001
5	10/10/2002	9:50	64.4	28.91	13	71.1	12.31	53.96	1.20	0.05	0.05	51.7	0.002
6	10/10/2002	10:52	69.8	28.91	21	70.0	19.92	73.88	1.57	0.06	0.07	70.5	0.002
7	10/10/2002	14:13	69.8	28.91	50	71.1	47.33	121.21	2.41	0.10	0.12	115.4	0.004
8	10/10/2002	15:57	69.1	28.94	24	71.0	22.75	143.95	2.75	0.12	0.14	137.0	0.005
9	10/10/2002	18:22	70.5	28.94	12	71.1	11.37	155.32	3.16	0.13	0.15	147.8	0.005
10	10/11/2002	9:28	63.5	28.85	70	69.8	66.29	221.61	5.01	0.19	0.22	211.2	0.007
11	10/11/2002	12:17	63.5	28.85	44	69.8	41.67	263.28	5.28	0.23	0.26	251.1	0.009
12	10/11/2002	18:59	71.1	28.82	19	72.7	17.88	281.15	5.88	0.24	0.28	268.0	0.009
13	10/12/2002	13:23	74.3	29.56	50	71.5	48.36	329.51	7.28	0.28	0.33	313.5	0.011
14	10/13/2002	14:26	72.8	29.62	57	71.0	55.29	384.80	8.83	0.33	0.38	365.6	0.013
15	10/14/2002	14:04	73.2	29.83	42	70.4	41.08	425.88	10.08	0.36	0.42	404.2	0.014
16	10/15/2002	15:10	74.0	29.71	53	70.0	51.67	477.54	11.26	0.41	0.47	452.7	0.016
17	10/16/2002	14:51	73.3	29.15	51	70.5	48.73	526.28	12.27	0.45	0.52	498.6	0.018
18	10/17/2002	13:52	73.3	29.44	38	70.3	36.69	562.96	13.17	0.48	0.56	533.1	0.019
19	10/18/2002	14:25	73.8	29.65	31	70.1	30.15	593.11	14.07	0.51	0.59	561.4	0.020
20	10/19/2002	14:53	74.4	29.56	30	70.4	29.07	622.19	14.92	0.53	0.62	588.7	0.021
21	10/20/2002	14:57	73.1	29.50	30	70.2	29.03	651.22	15.70	0.56	0.65	616.0	0.022
22	10/21/2002	15:55	72.3	29.65	26	72.7	25.17	676.38	16.48	0.58	0.67	639.8	0.023
23	10/22/2002	14:13	74.2	29.71	23	69.9	22.43	698.81	17.14	0.60	0.69	660.8	0.023
24	10/23/2002	17:09	73.7	29.77	28	69.9	27.36	726.16	17.91	0.62	0.72	686.5	0.024
25	10/24/2002	14:27	73.4	29.88	22	69.3	21.60	747.76	18.49	0.64	0.74	706.7	0.025
26	10/25/2002	15:21	74.3	29.85	24	69.2	23.54	771.30	19.16	0.66	0.76	728.8	0.026
27	10/26/2002	17:05	73.4	29.44	25	70.0	24.15	795.45	19.82	0.68	0.79	751.5	0.027
28	10/28/2002	12:02	75.2	29.65	32	69.9	31.14	826.59	20.87	0.71	0.82	780.6	0.028
29	10/29/2002	13:09	73.4	29.59	14	69.2	13.61	840.20	21.47	0.72	0.83	793.4	0.028
30	10/30/2002	15:23	73.4	29.41	24	68.9	23.21	863.41	22.07	0.74	0.86	815.2	0.029
31	10/31/2002	13:26	74.3	29.56	20	69.3	19.42	882.83	22.56	0.76	0.87	833.4	0.029
32	11/1/2002	14:53	73.4	29.50	20	69.3	19.38	902.21	23.12	0.77	0.89	851.5	0.030
33	11/4/2002	14:24	73.4	29.53	28	68.9	27.19	929.40	24.62	0.80	0.92	877.0	0.031
34	11/5/2002	14:54	73.4	29.59	22	69.3	21.39	950.79	25.11	0.81	0.94	897.1	0.032
35	11/6/2002	15:10	73.4	29.12	21	69.9	20.07	970.86	25.59	0.83	0.96	916.0	0.032
36	11/7/2002	13:58	73.4	29.62	12	69.5	11.67	982.53	26.03	0.84	0.97	926.9	0.033
37	11/8/2002	12:30	73.1	29.62	16	69.4	15.57	998.10	26.46	0.85	0.99	941.5	0.033
38	11/12/2002	13:24	74.3	29.60	46	70.7	44.47	1042.56	28.23	0.89	1.03	983.3	0.035
39	11/13/2002	12:06	73.4	29.56	21	67.9	20.45	1063.01	28.63	0.91	1.05	1002.4	0.035
40	11/15/2002	7:49	73.4	29.53	28	69.1	27.18	1090.19	29.38	0.93	1.08	1027.9	0.036
41	11/18/2002	13:23	74.3	29.71	34	69.2	33.19	1123.38	30.68	0.96	1.11	1059.0	0.037
42	11/20/2002	13:15	73.4	29.71	32	69.9	31.20	1154.58	31.45	0.99	1.14	1088.3	0.038
43	11/27/2002	12:10	73.4	29.65	56	68.9	54.59	1209.17	34.00	1.04	1.20	1139.5	0.040
44	12/3/2002	13:35	74.3	29.91	57	68.9	56.05	1265.23	36.07	1.08	1.25	1192.0	0.042
45	12/5/2002	11:41	74.3	29.53	38	69.1	36.88	1302.11	36.71	1.11	1.29	1226.5	0.043
46	12/9/2002	9:46	74.3	30.12	37	69.1	36.63	1338.74	37.97	1.15	1.33	1260.8	0.045
47	12/11/2002	10:29	74.3	29.50	30	69.4	29.07	1367.81	38.60	1.17	1.36	1288.0	0.045
48	12/16/2002	7:39	73.4	29.23	43	68.9	41.33	1409.13	40.09	1.21	1.40	1326.8	0.047
49	12/18/2002	9:02	74.3	30.00	25	68.8	24.66	1433.80	40.70	1.23	1.42	1349.9	0.048
50	12/20/2002	8:19	73.4	29.00	22	70.1	20.93	1454.73	41.28	1.25	1.44	1369.5	0.048
51	12/23/2002	7:12	73.4	29.50	25	68.9	24.25	1478.98	42.13	1.27	1.47	1392.3	0.049
52	12/27/2002	6:57	73.4	29.80	32	68.9	31.35	1510.33	43.25	1.29	1.50	1421.7	0.050
53	12/30/2002	14:27	74.3	29.68	29	69.1	28.29	1538.62	44.16	1.32	1.52	1448.1	0.051
54	1/2/2003	13:48	73.4	29.47	28	69.6	27.09	1565.71	44.96	1.34	1.55	1473.6	0.052
55	1/6/2003	12:52	74.3	29.41	32	68.8	30.95	1596.66	46.01	1.37	1.58	1502.5	0.053
56	1/9/2003	15:45	72.5	28.94	34	68.8	32.36	1629.02	46.81	1.39	1.61	1532.9	0.054
57	1/13/2003	14:15	73.4	29.41	32	68.5	30.97	1659.99	47.81	1.42	1.65	1561.9	0.055
58	1/17/2003	9:32	73.4	29.41	28	68.6	27.09	1687.08	48.76	1.44	1.67	1587.3	0.056
59	1/21/2003	15:18	71.6	29.50	29	68.1	28.17	1715.25	49.79	1.47	1.70	1613.8	0.057
60	1/24/2003	14:51	73.4	29.77	21	69.1	20.55	1735.80	50.50	1.49	1.72	1633.1	0.058
61	1/30/2003	9:28	73.4	29.91	30	68.8	29.51	1765.31	51.86	1.51	1.75	1660.7	0.059
62	2/11/2003	13:19	74.3	29.38	60	69.2	57.93	1823.23	54.60	1.56	1.81	1715.0	0.061
63	2/20/2003	11:27	72.5	29.83	46	68.8	45.12	1868.36	56.52	1.60	1.85	1757.3	0.062
64	2/27/2003	15:10	74.3	29.59	44	68.8	42.82	1911.17	58.02	1.64	1.89	1797.4	0.063
65	3/7/2003	12:33	74.3	29.80	42	68.9	41.15	1952.33	59.63	1.67	1.93	1835.9	0.065
66	3/13/2003	15:25	72.5	29.32	36	69.1	34.69	1987.02	60.85	1.70	1.97	1868.5	0.066
67	3/28/2003	12:50	72.5	29.65	51	70.0	49.62	2036.63	63.72	1.74	2.02	1915.2	0.068
68	4/9/2003	11:03	73.9	29.59	54	69.9	52.44	2089.07	65.93	1.79	2.07	1964.4	0.069
69	4/29/2003	12:09	74.3	29.41	70	70.5	67.48	2156.55	69.48	1.85	2.14	2027.8	0.072
70	5/21/2003	14:13	74.3	29.62	74	70.9	71.80	2228.35	73.20	1.91	2.21	2095.2	0.074
71	6/16/2003	13:22	74.3	29.65	79	72.1	76.55	2304.90	77.34	1.97	2.28	2167.3	0.077
72	7/28/2003	10:31	74.3	29.38	96	71.6	92.26	2397.17	83.58	2.05	2.38	2254.1	0.080
73	9/8/2003	12:43	73.4	29.59	102.5	73.6	98.84	2496.01	89.42	2.14	2.47	2347.6	0.083
74	11/25/2003	12:20	73.4	29.71	92.5	69.3	90.29	2586.30	99.34	2.21	2.56	2432.3	0.086
75	12/7/2003	10:00	72.5	29.71	47	72.5	45.60	2631.90	100.77	2.25	2.61	2475.5	0.087
76	1/24/2004	10:40	73.4	29.59	66	72.0	63.84	2695.74	106.33	2.31	2.67	2535.7	0.090
77	2/8/2004	15:19	73.4	29.74	42	71.8	40.84	2736.58	108.03	2.34	2.71	2574.2	0.091

Canister 3 - WV-02-B3-16

Project DOE/VWGES/USGS		Cumulative volume @ STP: 3358.3		Raw total gas (cc/g) 4.21
Well ID: 306-061 (Clarion 3)	Can no. WV-02-B3-16	Milliliters/gram raw coal: 4.21	DAF total gas (cc/g) 4.72	
Sample Interval (ft): From: 1278.7	To: 1279.7	Milliliter/gram coal d.a.f.: 4.72	Raw total gas (SCF/ton) 134.84	
Core Date: (mm/dd/yr) 10/10/2002	10:28	Lost gas estimate (cc) 0	DAF total gas (SCF/ton) 151.15	
Time Zero-Coal penetrated (hh:mm) (24 hour clock) 10:28		(excluding lost gas) (from lost gas graph)	Cuttings correction 25% (SCF/ton) N/A	
Raw coal mass (air-dry): (grams) 797				
Coal mass (d.a.f.): (grams) 711				
Headspace volume: (cc) 0				

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume	Correction Cumulative
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	° F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	@ STP (milliliter)	Gas Content (SCF)
In Can	10/10/2002	10:43	61.0	28.94	0		0.00	0.00	0.50	0.00	0.00	0.0	0.0
1	10/10/2002	10:53	69.8	28.91	27	70.0	25.61	25.61	0.65	0.03	0.04	24.2	0.001
2	10/10/2002	11:04	69.8	28.91	17	71.3	16.09	41.70	0.77	0.05	0.06	39.5	0.001
3	10/10/2002	11:11	69.8	28.91	16	71.2	15.14	56.84	0.85	0.07	0.08	53.8	0.002
4	10/10/2002	11:37	69.8	28.91	23	71.1	21.77	78.61	1.07	0.10	0.11	74.5	0.003
5	10/10/2002	12:12	69.8	28.91	23	71.2	21.77	100.38	1.32	0.13	0.14	95.1	0.003
6	10/10/2002	12:42	69.8	28.91	23	71.2	21.77	122.15	1.49	0.15	0.17	115.7	0.004
7	10/10/2002	13:38	69.8	28.91	31	71.1	29.34	151.49	1.78	0.19	0.21	143.6	0.005
8	10/10/2002	15:29	69.8	28.91	51	71.1	48.28	199.77	2.24	0.25	0.28	189.3	0.007
9	10/10/2002	15:46	69.8	28.94	13	71.1	12.32	212.09	2.30	0.27	0.30	201.0	0.007
10	10/10/2002	18:24	70.5	28.94	59	71.1	55.91	267.99	2.82	0.34	0.38	253.9	0.009
11	10/11/2002	9:11	63.5	28.85	158	69.8	149.62	417.61	4.77	0.52	0.59	397.1	0.014
12	10/11/2002	19:01	71.2	28.82	40	72.7	37.63	455.25	5.71	0.57	0.64	432.8	0.015
13	10/12/2002	13:24	73.4	29.56	101	71.5	97.68	552.93	7.14	0.69	0.78	524.7	0.019
14	10/13/2002	14:27	72.8	29.62	116	71.0	112.52	665.45	8.72	0.83	0.94	630.7	0.022
15	10/14/2002	14:05	73.2	29.83	92	70.4	89.98	755.43	9.98	0.95	1.06	715.3	0.025
16	10/15/2002	15:11	74.0	29.71	86	70.0	83.83	839.26	11.17	1.05	1.18	794.0	0.028
17	10/16/2002	14:52	73.3	29.15	87	70.5	83.13	922.40	12.18	1.16	1.30	872.2	0.031
18	10/17/2002	13:53	73.3	29.44	67	70.3	64.68	987.08	13.09	1.24	1.39	933.0	0.033
19	10/18/2002	14:27	73.8	29.65	60	70.1	58.36	1045.44	14.00	1.31	1.47	987.8	0.035
20	10/19/2002	14:54	74.4	29.56	55	70.1	53.33	1098.77	14.85	1.38	1.55	1037.8	0.037
21	10/20/2002	15:00	73.1	29.50	54	70.2	52.25	1151.02	15.64	1.44	1.62	1087.0	0.038
22	10/21/2002	15:56	73.2	29.65	48	72.7	46.46	1197.48	16.42	1.50	1.68	1130.9	0.040
23	10/22/2002	14:14	74.2	29.71	41	69.9	39.98	1237.46	17.08	1.55	1.74	1169.4	0.041
24	10/23/2002	17:11	73.7	29.77	49	69.9	47.87	1285.33	17.85	1.61	1.81	1213.3	0.043
25	10/24/2002	14:28	73.4	29.88	38	69.3	37.30	1322.63	18.44	1.66	1.86	1248.3	0.044
26	10/25/2002	15:22	74.3	29.85	40	69.2	39.24	1361.87	19.10	1.71	1.92	1285.1	0.045
27	10/26/2002	17:05	73.4	29.44	41	70.0	39.60	1401.47	19.76	1.76	1.97	1322.3	0.047
28	10/28/2002	12:03	75.2	29.65	55	69.9	53.52	1454.99	20.82	1.83	2.05	1372.4	0.048
29	10/29/2002	13:10	73.4	29.59	35	69.2	34.03	1489.02	21.42	1.87	2.09	1404.3	0.050
30	10/30/2002	15:24	73.4	29.41	38	68.9	36.75	1525.77	22.02	1.91	2.15	1438.7	0.051
31	10/31/2002	13:27	74.3	29.56	38	69.3	36.90	1562.67	22.52	1.96	2.20	1473.3	0.052
32	11/1/2002	14:54	73.4	29.50	34	69.3	32.95	1595.62	23.07	2.00	2.24	1504.2	0.053
33	11/4/2002	14:25	73.4	29.53	58	68.9	56.31	1651.94	24.58	2.07	2.32	1557.0	0.055
34	11/5/2002	13:55	73.4	29.59	34	69.3	33.05	1684.99	25.05	2.11	2.37	1588.0	0.056
35	11/6/2002	15:11	73.4	29.12	32	69.9	30.58	1715.57	25.55	2.15	2.41	1616.8	0.057
36	11/7/2002	13:59	73.4	29.62	22	69.5	21.40	1736.97	25.99	2.18	2.44	1636.9	0.058
37	11/8/2002	12:30	73.1	29.62	22	69.3	21.41	1758.38	26.42	2.21	2.47	1657.0	0.059
38	11/12/2002	13:25	74.3	29.50	72	70.7	69.60	1827.98	28.19	2.29	2.57	1722.3	0.061
39	11/13/2002	12:07	73.4	29.56	31	67.9	30.19	1858.17	28.59	2.33	2.61	1750.6	0.062
40	11/15/2002	7:50	73.4	29.53	38	69.1	36.88	1895.05	29.35	2.38	2.67	1785.2	0.063
41	11/18/2002	13:24	74.3	29.71	50	69.2	48.81	1943.86	30.64	2.44	2.73	1830.9	0.065
42	11/20/2002	13:16	73.4	29.71	43	69.9	41.93	1985.79	31.41	2.49	2.79	1870.3	0.066
43	11/27/2002	12:02	73.4	29.65	81	68.9	78.96	2064.75	33.96	2.59	2.90	1944.3	0.069
44	12/3/2002	13:36	74.3	29.91	79	68.9	77.69	2142.44	36.04	2.69	3.01	2017.0	0.071
45	12/5/2002	11:42	74.3	29.53	47	69.1	45.62	2188.06	36.68	2.75	3.08	2059.7	0.073
46	12/9/2002	9:47	74.3	30.12	47	69.1	46.53	2234.59	37.94	2.80	3.14	2103.3	0.074
47	12/11/2002	10:31	74.3	29.50	40	69.4	38.76	2273.35	38.58	2.85	3.20	2139.6	0.076
48	12/16/2002	7:40	73.4	29.23	11	68.9	10.57	2283.92	40.06	2.87	3.21	2149.5	0.076
49	12/18/2002	9:03	74.3	30.00	24	68.8	23.68	2307.60	40.68	2.90	3.25	2171.7	0.077
50	12/20/2002	8:21	73.4	29.00	33	70.1	31.39	2338.99	41.25	2.93	3.29	2201.2	0.078
51	12/23/2002	7:14	73.4	29.50	30	68.9	29.10	2368.09	42.10	2.97	3.33	2228.5	0.079
52	12/27/2002	6:58	73.4	29.80	41	68.9	40.17	2408.26	43.23	3.02	3.39	2266.1	0.080
53	12/30/2002	14:28	74.3	29.68	34	69.1	33.17	2441.43	44.14	3.06	3.43	2297.2	0.081
54	1/2/2003	13:49	73.4	29.47	31	69.6	30.00	2471.43	44.94	3.10	3.48	2325.3	0.082
55	1/6/2003	12:53	74.3	29.41	36	68.8	34.82	2506.24	45.98	3.14	3.52	2357.9	0.083
56	1/9/2003	15:46	72.5	28.94	39	68.8	37.12	2543.36	46.79	3.19	3.58	2392.8	0.085
57	1/13/2003	14:16	73.4	29.41	36	68.5	34.84	2578.20	47.79	3.23	3.63	2425.4	0.086
58	1/17/2003	9:33	73.4	29.41	31	68.6	29.99	2608.19	48.73	3.27	3.67	2453.5	0.087
59	1/21/2003	15:19	71.6	29.50	32	68.1	31.09	2639.28	49.77	3.31	3.71	2482.7	0.088
60	1/24/2003	14:53	73.4	29.77	24	69.1	23.48	2662.76	50.48	3.34	3.75	2504.7	0.088
61	1/30/2003	9:30	73.4	29.91	33	68.8	32.46	2695.22	51.84	3.38	3.79	2535.2	0.090
62	2/11/2003	13:20	74.3	29.38	67	69.2	64.68	2759.90	54.58	3.46	3.88	2595.7	0.092
63	2/20/2003	11:29	72.5	29.38	50	68.8	48.31	2808.21	56.51	3.52	3.95	2641.1	0.093
64	2/27/2003	15:11	74.3	29.59	46	68.8	44.76	2852.97	58.01	3.58	4.01	2683.0	0.095
65	3/7/2003	12:34	74.3	29.80	45	68.9	44.09	2897.06	59.62	3.63	4.07	2724.3	0.096
66	3/13/2003	15:26	72.5	29.32	39	69.1	37.58	2934.65	60.84	3.68	4.13	2759.6	0.097
67	3/28/2003	12:51	72.5	29.65	54	70.0	52.53	2987.18	63.71	3.75	4.20	2809.0	0.099
68	4/9/2003	11:06	73.9	29.59	45	69.9	43.70	3030.88	65.91	3.80	4.26	2850.0	0.101
69	4/29/2003	12:11	74.3	29.41	74	70.5	71.34	3102.22	69.47	3.89	4.36	2917.0	0.103
70	5/21/2003	14:14	74.3	29.62	75	70.9	72.77	3174.99	73.18	3.98	4.47	2985.4	0.105
71	6/16/2003	13:23	74.3	29.65	77	72.1	74.61	3249.60	77.32	4.08	4.57	3055.6	0.108
72	7/28/2003	10:32	74.3	29.38	95	71.6	91.30	3340.90	83.57	4.19	4.70	3141.5	0.111
73	9/8/2003	12:44	73.4	29.59	100	73.6	96.43	3437.33	89.41	4.31	4.83	3232.7	0.114
74	11/25/2003	13:34	73.4	29.71	92	69.3	89.80	3527.14	93.33	4.43	4.96	3317.0	0.117
75	12/5/2003	10:02	72.5	29.71	45	72.5	43.66	3570.80	100.52	4.48	5.02	3358.3	0.119
76	Stopped analyses												
77	Measured ash content = 10.84%												

Clarion coal zone, con't.

Canister 4 - WV-02-B3-17

Project	DOE/WVGES/USGS		Cumulative volume @ STP:	3596.0		Raw total gas (cc/g)	3.92	
Well ID:	306-061 (Clarion Core 4)		Can no.	WV-02-B3-17		DAF total gas (cc/g)	4.78	
Sample Interval (ft):	From:	1279.7	To:	1280.8	Milliliters/gram raw coal:	3.92		
Core Date: (mm/dd/yr)	10/10/2002		Milliliter/gram coal d.a.f.:	4.78			Raw total gas (SCF/ton)	125.35
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	10:28		(excluding lost gas)				DAF total gas (SCF/ton)	152.82
Raw coal mass (air-dry): (grams)	918		Lost gas estimate (cc)	0			Cuttings correction 25% (SCF/ton)	N/A
Coal mass (d.a.f.): (grams)	753		(from lost gas graph)					
Headspace volume: (cc)	0							

Sample Type	<input checked="" type="radio"/> Core	<input type="radio"/> Cuttings	Data Summary	<input checked="" type="radio"/> Preliminary	<input type="radio"/> Final Results
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enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)													
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	°F	Hg	(milliliter)	°F	(milliliter)	(milliliter)	(Hrs ^{1/2})	Mass	Mass	(milliliter)	(SCF)
In Can	10/10/2002	10:44	61.0	28.94	0		0.00	0.00	0.52	0.00	0.00	0.0	0.0
1	10/10/2002	10:54	69.8	28.91	21	70.0	19.92	19.92	0.66	0.02	0.03	18.8	0.001
2	10/10/2002	11:05	69.8	28.91	13	71.3	12.30	32.22	0.79	0.04	0.04	30.5	0.001
3	10/10/2002	11:15	69.8	28.91	12	71.2	11.36	43.58	0.89	0.05	0.06	41.3	0.001
4	10/10/2002	11:38	69.8	28.91	21	71.1	19.88	63.46	1.08	0.07	0.08	60.1	0.002
5	10/10/2002	12:13	69.8	28.91	25	71.2	23.66	87.12	1.32	0.09	0.12	82.5	0.003
6	10/10/2002	12:42	69.8	28.91	18	71.1	17.04	104.16	1.49	0.11	0.14	98.7	0.003
7	10/10/2002	13:39	69.8	28.91	21	71.1	19.88	124.03	1.78	0.14	0.16	117.5	0.004
8	10/10/2002	15:30	69.8	28.91	46	71.1	43.54	167.58	2.24	0.18	0.22	158.8	0.006
9	10/10/2002	15:47	69.8	28.94	13	71.1	12.32	179.90	2.31	0.20	0.24	170.5	0.006
10	10/10/2002	18:25	70.5	28.85	46	71.1	43.45	223.35	2.82	0.24	0.30	211.6	0.007
11	10/11/2002	9:13	63.5	28.85	12	69.9	11.36	234.71	4.77	0.26	0.31	222.5	0.008
12	10/11/2002	12:13	66.5	28.82	148	69.5	140.08	374.79	5.07	0.41	0.50	355.7	0.013
13	10/11/2002	19:01	71.2	29.56	63	72.7	60.79	435.59	5.71	0.47	0.58	413.4	0.015
14	10/12/2002	13:25	74.3	29.62	104	71.1	100.86	536.45	7.14	0.58	0.71	508.2	0.018
15	10/13/2002	14:27	72.8	29.83	113	71.0	110.39	646.84	8.72	0.70	0.86	612.2	0.022
16	10/14/2002	14:06	73.2	29.71	110	70.4	107.15	753.99	9.98	0.82	1.00	713.0	0.025
17	10/15/2002	15:12	74.0	29.15	89	70.0	85.12	839.12	11.17	0.91	1.11	792.9	0.028
18	10/16/2002	14:52	73.3	29.44	80	70.5	77.20	916.32	12.18	1.00	1.22	865.5	0.031
19	10/17/2002	13:53	73.3	29.65	70	70.3	68.06	984.38	13.09	1.07	1.31	929.5	0.033
20	10/18/2002	14:29	73.8	29.56	64	70.1	62.06	1046.44	14.00	1.14	1.39	987.7	0.035
21	10/19/2002	14:57	74.4	29.50	59	70.1	57.10	1103.54	14.85	1.20	1.47	1041.3	0.037
22	10/20/2002	15:02	73.1	29.65	56	70.2	54.46	1158.00	15.64	1.26	1.54	1092.5	0.039
23	10/21/2002	15:56	73.2	29.71	50	72.7	48.49	1206.49	16.42	1.31	1.60	1138.3	0.040
24	10/22/2002	14:06	74.2	29.77	51	69.9	49.83	1256.32	17.08	1.37	1.67	1185.1	0.042
25	10/23/2002	17:12	73.7	29.88	49	69.9	48.05	1304.36	17.85	1.42	1.73	1230.2	0.043
26	10/24/2002	14:28	73.4	29.85	39	69.3	38.25	1342.61	18.44	1.46	1.78	1266.0	0.045
27	10/25/2002	15:23	74.3	29.44	42	69.2	40.63	1383.24	19.10	1.51	1.84	1304.1	0.046
28	10/26/2002	17:06	73.4	29.65	42	70.0	40.86	1424.10	19.76	1.55	1.89	1342.5	0.047
29	10/28/2002	12:04	75.2	29.59	59	69.9	57.29	1481.40	20.82	1.61	1.97	1396.1	0.049
30	10/29/2002	13:10	73.4	29.41	42	69.2	40.59	1521.99	21.42	1.66	2.02	1434.2	0.051
31	10/30/2002	15:25	73.4	29.56	39	68.9	37.90	1559.89	22.02	1.70	2.07	1469.7	0.052
32	10/31/2002	13:27	74.3	29.50	34	69.3	32.95	1592.84	22.52	1.74	2.12	1500.6	0.053
33	11/1/2002	14:54	73.4	29.53	34	69.3	32.99	1625.83	23.07	1.77	2.16	1531.6	0.054
34	11/4/2002	14:25	73.4	29.59	60	68.9	58.37	1684.20	24.58	1.83	2.24	1586.3	0.056
35	11/5/2002	13:56	73.4	29.12	34	69.3	32.53	1716.73	25.05	1.87	2.28	1616.8	0.057
36	11/6/2002	15:11	73.4	29.62	34	69.9	33.05	1749.78	25.55	1.91	2.32	1647.9	0.058
37	11/7/2002	13:59	73.4	29.62	26	69.5	25.29	1775.07	25.99	1.93	2.36	1671.6	0.059
38	11/8/2002	12:31	73.1	29.50	25	69.4	24.23	1799.30	26.42	1.96	2.39	1694.3	0.060
39	11/12/2002	13:26	74.3	29.56	76	70.7	73.61	1872.91	28.20	2.04	2.49	1763.5	0.062
40	11/13/2002	12:08	73.4	29.53	35	67.9	34.05	1906.96	28.59	2.08	2.53	1795.3	0.063
41	11/15/2002	7:51	73.4	29.71	42	69.1	41.01	1947.97	29.35	2.12	2.59	1833.8	0.065
42	11/18/2002	13:24	74.3	29.71	55	69.2	53.70	2001.67	30.64	2.18	2.66	1884.1	0.067
43	11/20/2002	13:16	73.4	29.65	47	69.9	45.73	2047.40	31.41	2.23	2.72	1927.1	0.068
44	11/27/2002	12:01	73.4	29.91	87	68.9	85.56	2132.96	33.96	2.32	2.83	2007.3	0.071
45	12/3/2002	13:37	74.3	29.53	90	68.9	87.38	2220.34	36.04	2.42	2.95	2089.1	0.074
46	12/5/2002	11:43	74.3	30.12	53	69.1	52.47	2272.81	36.68	2.48	3.02	2138.2	0.076
47	12/9/2002	9:48	74.3	29.50	52	69.1	50.42	2323.23	37.94	2.53	3.09	2185.4	0.077
48	12/11/2002	10:32	74.3	29.23	45	69.4	43.21	2366.44	38.58	2.58	3.14	2225.9	0.079
49	12/16/2002	7:43	73.4	30.00	60	68.9	59.18	2425.62	40.07	2.64	3.22	2281.4	0.081
50	12/18/2002	9:04	74.3	29.00	34	68.8	32.43	2458.04	40.68	2.68	3.26	2311.7	0.082
51	12/20/2002	8:22	73.4	29.50	32	70.1	30.97	2489.01	41.25	2.71	3.31	2340.8	0.083
52	12/23/2002	7:14	73.4	29.80	36	68.9	35.27	2524.28	42.10	2.75	3.35	2373.9	0.084
53	12/27/2002	6:58	73.4	29.68	46	68.9	44.89	2569.17	43.23	2.80	3.41	2416.0	0.085
54	12/30/2002	14:29	74.3	29.47	38	69.1	36.81	2605.98	44.14	2.84	3.46	2450.4	0.087
55	1/2/2003	13:49	73.4	29.41	36	69.6	34.77	2640.74	44.94	2.88	3.51	2483.1	0.088
56	1/6/2003	12:53	74.3	28.94	41	68.8	39.02	2679.76	45.98	2.92	3.56	2519.6	0.089
57	1/9/2003	15:46	72.5	29.41	42	68.8	40.62	2720.39	46.79	2.96	3.61	2557.7	0.090
58	1/13/2003	14:17	73.4	29.41	40	68.5	38.71	2759.09	47.79	3.01	3.66	2594.0	0.092
59	1/17/2003	9:33	73.4	29.50	36	68.6	34.94	2794.03	48.73	3.04	3.71	2626.7	0.093
60	1/21/2003	15:19	71.6	29.77	36	68.1	35.29	2829.32	49.77	3.08	3.76	2659.9	0.094
61	1/24/2003	14:53	73.4	29.91	28	69.1	27.53	2856.85	50.48	3.11	3.79	2685.7	0.095
62	1/30/2003	9:31	73.4	29.92	36	68.8	35.42	2892.27	51.84	3.15	3.84	2718.9	0.096
63	2/11/2003	13:21	74.3	29.38	71	69.2	68.55	2960.82	54.58	3.23	3.93	2783.1	0.098
64	2/20/2003	11:29	72.5	29.83	56	68.8	54.93	3015.75	56.51	3.29	4.00	2834.7	0.100
65	2/27/2003	15:11	74.3	29.59	50	68.8	48.65	3064.41	58.01	3.34	4.07	2880.2	0.102
66	3/7/2003	12:27	74.3	29.80	49	68.9	48.01	3112.42	59.62	3.39	4.13	2925.2	0.103
67	3/13/2003	15:26	72.5	29.32	42	69.1	40.47	3152.89	60.84	3.43	4.19	2963.2	0.105
68	3/28/2003	12:52	72.5	29.65	60	70.0	58.37	3211.26	63.71	3.50	4.26	3018.1	0.107
69	4/9/2003	11:06	73.9	29.59	56	69.9	54.38	3265.64	65.91	3.56	4.34	3069.1	0.108
70	4/29/2003	12:11	74.3	29.41	79	70.5	76.16	3341.80	69.47	3.64	4.44	3140.6	0.111
71	5/21/2003	14:15	74.3	29.62	24	70.9	23.29	3365.09	73.18	3.67	4.47	3162.5	0.112
72	6/16/2003	13:24	74.3	29.65	78	72.1	75.58	3440.67	77.32	3.75	4.57	3233.7	0.114
73	7/28/2003	10:33	74.3	29.38	108	71.6	103.80	3544.47	83.57	3.86	4.71	3331.3	0.118
74	9/8/2003	12:45	73.4	29.59	142.5	73.6	137.42	3681.88	89.41	4.01	4.89	3461.3	0.122
75	11/25/2003	13:36	73.4	29.71	102	69.3	99.56	3781.44	99.33	4.12	5.02	3554.8	0.126
76	12/7/2003	10:04	72.5	29.71	45	72.5	43.66	3825.10	100.76	4.17	5.08	3596.0	0.127
77	Stopped analyses												
78	Measured ash content = 17.96 %												

Canister 1 - WV-02-B3-18

Project		DOE/WVGES/JUGGS		Cumulative volume @ STP:		1730.0		Raw total gas (cc/g)		2.97	
Well ID:		306-061 U. Mercier/Clark		VW-02-B3-18							
Sample Interval (min):		From: 1324.4		To: 1325.15		Milliliters/gram raw coal:		2.95		DAF total gas (cc/g)	
Core Date: (mm/dd/yr)				10/10/2002		Milliliter/gram coal d.a.f.:		3.31		Raw total gas (SCF/ton)	
Time Zero-Cool penetrated (hh:mm) (24 hour clock)				14:31		(excluding lost gas)				DAF total gas (SCF/ton)	
Raw coal mass (air-dry): (grams)				586		Lost gas estimate (cc)		10			
Coal mass (d.a.f.): (grams)				522		(from lost gas graph)				Cuttings correction 25% (SCF/ton)	
Headspace volume: (cc)				0						N/A	
Sample Type <input checked="" type="checkbox"/> Core <input type="checkbox"/> Cuttings				Data Summary <input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final Results							

Enter data only in shaded areas. Copy and paste formulas as needed to calculate more description data (columns H through N)														
	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content	
	(mm/dd/yr)	HH:MM	'F	Hg	(milliliter)	'F	(milliliter)	(milliliter)	(Hrs ⁻¹)	Mass	Mass	(milliliter)	(SCF)	
In Can	10/10/2002	14:44		28.90	0		0.00	0.00	0.47	0.00	0.00	0.0	0.0	
1	10/10/2002	14:57	69.9	28.91	20	71.1	18.93	18.93	0.66	0.03	0.04	17.9	0.001	
2	10/10/2002	15:07	69.9	28.91	12	71.1	11.36	30.29	0.77	0.05	0.06	28.7	0.001	
3	10/10/2002	15:27	69.9	28.91	10	71.0	9.47	39.76	0.97	0.07	0.08	37.7	0.001	
4	10/10/2002	15:46	69.9	28.91	12	71.1	11.36	51.12	1.12	0.09	0.10	48.4	0.002	
5	10/10/2002	18:26	70.5	28.94	45	71.1	42.64	93.76	1.98	0.16	0.18	89.3	0.003	
6	10/11/2002	9:00	63.5	28.85	92	69.9	87.10	180.86	4.30	0.31	0.35	172.2	0.006	
7	10/11/2002	12:11	66.5	28.85	14	69.5	13.26	194.13	4.65	0.33	0.37	184.7	0.007	
8	10/11/2002	19:02	71.2	28.82	40	72.7	37.63	231.76	5.34	0.40	0.44	220.2	0.008	
9	10/12/2002	13:26	74.3	29.56	59	71.5	57.06	288.82	6.85	0.49	0.55	274.0	0.010	
10	10/13/2002	14:28	72.8	29.62	60	71.0	58.20	347.02	8.48	0.59	0.66	328.8	0.012	
11	10/14/2002	14:06	73.2	29.83	46	70.4	44.99	392.01	9.78	0.67	0.75	371.1	0.013	
12	10/15/2002	15:13	74.0	29.71	53	70.0	51.67	443.68	10.99	0.76	0.85	419.6	0.015	
13	10/16/2002	14:54	73.3	29.15	48	70.5	45.87	489.54	12.02	0.84	0.94	462.8	0.016	
14	10/17/2002	13:54	73.3	29.44	34	70.3	32.82	522.37	12.94	0.89	1.00	493.6	0.017	
15	10/18/2002	14:30	73.8	29.65	30	70.1	29.18	551.55	13.86	0.94	1.06	521.0	0.018	
16	10/19/2002	14:57	74.4	29.56	29	70.1	28.12	579.67	14.71	0.99	1.11	547.4	0.019	
17	10/20/2002	15:04	73.1	29.50	28	70.2	27.09	606.76	15.51	1.04	1.16	572.9	0.020	
18	10/21/2002	15:57	73.2	29.65	24	72.7	23.23	629.99	16.29	1.08	1.21	594.8	0.021	
19	10/22/2002	14:14	74.2	29.61	22	69.9	21.45	651.44	16.96	1.11	1.25	614.9	0.022	
20	10/23/2002	17:13	73.7	29.77	26	69.9	25.40	676.84	17.74	1.16	1.30	638.8	0.023	
21	10/24/2002	14:29	73.4	29.88	20	69.3	19.63	696.48	18.33	1.19	1.33	657.2	0.023	
22	10/25/2002	15:23	74.3	29.85	20	69.2	19.62	716.09	19.00	1.22	1.37	675.6	0.024	
23	10/26/2002	17:06	73.4	29.44	17	70.0	16.42	732.52	19.66	1.25	1.40	691.0	0.024	
24	10/28/2002	12:05	75.2	29.65	26	69.9	25.30	757.81	20.73	1.29	1.45	714.7	0.025	
25	10/29/2002	13:11	73.4	29.59	20	69.2	19.45	777.26	21.32	1.33	1.49	733.0	0.026	
26	10/30/2002	15:25	73.4	29.41	20	68.9	19.34	796.60	21.93	1.36	1.53	751.1	0.027	
27	10/31/2002	13:28	74.3	29.56	18	69.3	17.48	814.08	22.43	1.39	1.56	767.5	0.027	
28	11/1/2002	14:55	73.4	29.50	19	69.3	18.41	832.50	22.99	1.42	1.59	784.8	0.028	
29	11/4/2002	14:26	73.4	29.53	24	68.9	23.30	855.80	24.49	1.46	1.64	806.6	0.028	
30	11/5/2002	13:57	73.4	29.59	9	69.3	8.75	864.55	24.97	1.48	1.66	814.8	0.029	
31	11/6/2002	15:12	73.4	29.12	20	69.9	19.11	883.66	25.47	1.51	1.69	832.8	0.029	
32	11/7/2002	14:00	73.4	29.62	10	69.5	9.73	893.39	25.91	1.52	1.71	841.9	0.030	
33	11/8/2002	12:31	73.1	29.62	11	69.4	10.70	904.09	26.34	1.54	1.73	851.9	0.030	
34	11/12/2002	13:27	74.3	29.50	39	70.7	37.70	941.79	28.12	1.61	1.80	887.4	0.031	
35	11/13/2002	12:09	73.4	29.56	17	67.9	16.55	958.35	28.52	1.64	1.84	902.9	0.032	
36	11/15/2002	7:52	73.4	29.53	22	69.1	21.35	979.70	29.28	1.67	1.88	922.9	0.033	
37	11/18/2002	13:25	74.3	29.71	26	69.2	25.38	1005.08	30.58	1.72	1.93	946.7	0.033	
38	11/20/2002	13:17	73.4	29.71	24	69.9	23.40	1028.48	31.35	1.76	1.97	968.7	0.034	
39	11/27/2002	11:57	73.4	29.65	45	68.9	43.87	1072.35	33.90	1.83	2.05	1009.7	0.036	
40	12/3/2002	13:38	74.3	29.91	47	68.9	46.22	1118.57	35.99	1.91	2.14	1053.0	0.037	
41	12/5/2002	11:43	74.3	29.53	30	69.1	29.12	1147.69	36.62	1.96	2.20	1080.3	0.038	
42	12/9/2002	9:48	74.3	30.12	26	69.1	25.74	1173.43	37.89	2.00	2.25	1104.4	0.039	
43	12/11/2002	10:32	74.3	29.50	25	69.4	24.23	1197.65	38.52	2.04	2.29	1127.1	0.040	
44	12/16/2002	7:43	73.4	29.23	32	68.9	30.75	1228.41	40.01	2.10	2.35	1155.9	0.041	
45	12/18/2002	9:05	74.3	30.00	16	68.8	15.79	1244.19	40.63	2.12	2.38	1170.7	0.041	
46	12/20/2002	8:23	73.4	29.00	21	70.1	19.98	1264.17	41.21	2.16	2.42	1189.5	0.042	
47	12/23/2002	7:15	73.4	29.50	19	68.9	18.43	1282.60	42.06	2.19	2.46	1206.7	0.043	
48	12/27/2002	6:59	73.4	29.80	27	68.9	26.45	1309.05	43.18	2.23	2.51	1231.5	0.043	
49	12/30/2002	14:29	73.4	29.68	20	69.1	19.51	1328.56	44.09	2.27	2.55	1249.8	0.044	
50	1/2/2003	13:50	73.4	29.47	21	69.6	20.32	1348.88	44.89	2.30	2.58	1268.8	0.045	
51	1/6/2003	12:54	74.3	29.41	25	68.8	24.18	1373.06	45.94	2.34	2.63	1291.5	0.046	
52	1/9/2003	15:47	72.5	28.94	27	68.8	25.70	1398.76	46.75	2.39	2.68	1315.6	0.046	
53	1/13/2003	14:17	73.4	29.41	24	68.5	23.23	1421.98	47.75	2.43	2.72	1337.4	0.047	
54	1/17/2003	9:34	73.4	29.41	20	68.6	19.35	1441.33	48.69	2.46	2.76	1355.6	0.048	
55	1/21/2003	15:20	71.6	29.50	20	68.1	19.43	1460.76	49.73	2.49	2.80	1373.8	0.049	
56	1/24/2003	14:54	73.4	29.77	15	69.1	14.68	1475.44	50.44	2.52	2.83	1387.5	0.049	
57	1/30/2003	9:31	73.4	29.91	21	68.8	20.66	1496.10	51.80	2.55	2.87	1406.9	0.050	
58	2/11/2003	13:21	74.3	29.38	48	69.2	46.66	1496.10	51.80	2.55	2.87	1406.9	0.050	
59	2/20/2003	11:30	72.5	29.83	33	68.8	46.34	1542.44	54.54	2.63	2.95	1450.4	0.051	
60	2/27/2003	15:11	74.3	29.59	33	68.8	32.37	1528.47	56.47	2.61	2.93	1437.2	0.051	
61	3/7/2003	12:34	74.3	29.80	32	68.9	31.11	1574.55	57.97	2.69	3.02	1480.5	0.052	
62	3/13/2003	15:26	72.5	29.32	27	69.1	31.35	1559.82	59.58	2.66	2.99	1466.6	0.052	
63	3/28/2003	12:52	72.5	29.65	39	70.0	26.02	1600.57	60.80	2.73	3.07	1504.9	0.053	
64	4/9/2003	11:07	73.9	29.59	34	69.9	37.94	1597.76	63.67	2.73	3.06	1502.2	0.053	
65	4/29/2003	12:12	74.3	29.41	49	70.5	33.02	1633.58	65.88	2.79	3.13	1535.9	0.054	
66	5/21/2003	14:15	74.3	29.62	54	70.9	47.24	1645.00	69.44	2.81	3.15	1546.6	0.055	
67	6/16/2003	13:24	74.3	29.65	60	72.1	52.39	1685.97	73.16	2.88	3.23	1585.1	0.056	
68	7/28/2003	10:34	74.3	29.38	79	71.6	58.14	1703.14	77.30	2.91	3.26	1601.3	0.057	
69	9/8/2003	12:46	73.4	29.59	90	73.6	75.93	1761.90	83.55	3.01	3.38	1656.6	0.059	
70	11/25/2003	13:39	73.4	29.71	80	69.3	86.79	1789.93	89.39	3.05	3.43	1683.4	0.059	
71	12/7/2003	10:09	72.5	29.71	34	72.5	78.09	1839.99	99.31	3.14	3.52	1730.0	0.061	
72	Stopped analyses													
73	Measured ash content = 10.96 %													

Canister 1 - WV-02-B3-19

Project	DOE/VVGES/JUGS			Cumulative volume @ STP:	1032.8	Raw total gas (cc/g)	1.10	
Well ID:	306-061 (Lwr. Mercier)	Can no.	VV-02-B3-19	Milliliters/gram raw coal:	1.10	DAF total gas (cc/g)	1.59	
Sample interval (ft):	From:	1357.5	To:	1358.5	Milliliter/gram coal d.a.f.:	1.59	Raw total gas (SCF/ton)	35.27
Core Date: (mm/dd/yr)	10/10/2002			(excluding lost gas)	0	DAF total gas (SCF/ton)	50.84	
Time Zero-Coal penetrated (hh:mm) (24 hour clock)	17:51			Lost gas estimate (cc)	0	Cuttings correction 25% (SCF/ton)	N/A	
Raw coal mass (air-dry): (grams)	937			(from lost gas graph)				
Coal mass (d.a.f.): (grams)	650							
Headspace volume: (cc)	0							

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time 24 hour Clock	Ambient Temp	Pressure inches	Delta Gas Volume	Internal Canister Temp.	Delta Volume @ STP	Cumulative Volume @ STP	Sq. Root Elapsed Time	ml/gram Raw Coal	ml/g d.a.f Coal	Headspace Cumulative Volume @ STP	Correction Cumulative Gas Content
	(mm/dd/yr)	HH:MM	°F	Hg	(milliter)	° F	(milliter)	(milliter)	(Hrs ⁻¹)	Mass	Mass	@ STP	(SCF)
In Can	10/10/2002	18:09		28.94			0.00	0.00	0.55	0.00	0.00	0.0	0.0
1	10/10/2002	18:19	70.5	28.94	25	71.0	23.69	23.69	0.68	0.03	0.04	22.4	0.001
2	10/10/2002	18:29	70.5	28.94	8	71.0	7.58	31.28	0.80	0.03	0.05	29.6	0.001
3	10/10/2002	18:39	70.5	28.94	5	71.0	4.74	36.01	0.89	0.04	0.06	34.1	0.001
4	10/10/2002	19:02	70.5	28.94	9	71.0	8.53	44.54	1.09	0.05	0.07	42.2	0.001
5	10/11/2002	8:57	63.1	28.85	58	69.8	54.92	99.47	3.89	0.11	0.15	94.8	0.003
6	10/11/2002	9:12	66.5	28.85	23	69.5	21.79	121.26	3.92	0.13	0.19	115.5	0.004
7	10/11/2002	19:03	71.2	28.82	12	72.7	11.29	132.55	5.02	0.14	0.20	126.2	0.004
8	10/12/2002	13:26	74.3	28.56	28	71.1	26.18	158.73	6.60	0.17	0.24	150.8	0.005
9	10/13/2002	14:29	72.8	29.62	29	71.0	28.13	186.87	8.28	0.20	0.29	177.3	0.006
10	10/14/2002	14:07	73.2	29.83	20	70.4	19.56	206.43	9.61	0.22	0.32	195.7	0.007
11	10/15/2002	15:13	74.0	29.71	20	70.0	19.50	225.92	10.83	0.24	0.35	214.0	0.008
12	10/16/2002	14:55	73.3	29.15	23	70.5	21.98	247.90	11.88	0.26	0.38	234.7	0.008
13	10/17/2002	13:55	73.3	29.44	12	70.3	11.58	259.48	12.81	0.28	0.40	245.6	0.009
14	10/18/2002	14:30	73.8	29.65	10	70.1	9.73	269.21	13.73	0.29	0.41	254.7	0.009
15	10/19/2002	14:58	74.4	29.56	12	70.1	11.64	280.85	14.60	0.30	0.43	265.6	0.009
16	10/20/2002	15:05	73.1	29.50	12	70.2	11.61	292.46	15.40	0.31	0.45	276.5	0.010
17	10/21/2002	15:57	73.2	29.65	10	72.7	9.68	302.14	16.19	0.32	0.46	285.7	0.010
18	10/22/2002	14:15	74.2	29.71	8	69.9	7.80	309.94	16.86	0.33	0.48	293.0	0.010
19	10/23/2002	17:14	73.7	29.77	13	69.9	12.70	322.64	17.65	0.34	0.50	304.9	0.011
20	10/24/2002	14:29	73.4	29.88	9	69.3	8.84	331.47	18.24	0.35	0.51	313.2	0.011
21	10/25/2002	15:24	74.3	29.85	10	69.2	9.81	341.28	18.91	0.36	0.53	322.4	0.011
22	10/26/2002	17:06	73.4	29.44	10	70.0	9.66	350.94	19.58	0.37	0.54	331.5	0.012
23	10/28/2002	12:05	75.2	29.65	10	69.9	9.73	360.67	20.65	0.38	0.55	340.6	0.012
24	10/29/2002	13:11	73.4	29.59	10	69.2	9.72	370.40	21.24	0.40	0.57	349.7	0.012
25	10/30/2002	15:26	73.4	29.41	10	68.9	9.67	380.07	21.85	0.41	0.58	358.8	0.013
26	10/31/2002	13:29	74.3	29.56	8	69.3	7.77	387.83	22.35	0.41	0.60	366.0	0.013
27	11/1/2002	14:58	73.4	29.50	9	69.3	8.72	396.56	22.92	0.42	0.61	374.2	0.013
28	11/4/2002	14:26	73.4	29.53	7	68.9	6.80	403.35	24.43	0.43	0.62	380.6	0.013
29	11/5/2002	13:57	73.4	29.59	2	69.3	1.94	405.30	24.90	0.43	0.62	382.4	0.014
30	11/6/2002	15:12	73.4	29.12	9	69.9	8.60	413.90	25.40	0.44	0.64	390.5	0.014
31	11/7/2002	14:01	73.4	29.62	5	69.5	4.86	418.76	25.85	0.45	0.64	395.1	0.014
32	11/8/2002	12:32	73.1	29.62	5	69.4	4.86	423.63	26.28	0.45	0.65	399.6	0.014
33	11/12/2002	13:27	74.3	29.50	20	70.7	19.33	442.96	28.06	0.47	0.68	417.8	0.015
34	11/13/2002	12:09	73.4	29.56	7	67.9	6.82	449.78	28.47	0.48	0.69	424.2	0.015
35	11/15/2002	7:52	73.4	29.53	10	69.1	9.71	459.48	29.22	0.49	0.71	433.3	0.015
36	11/18/2002	13:25	74.3	29.71	15	69.2	14.84	474.13	30.52	0.51	0.73	447.0	0.016
37	11/20/2002	13:17	73.4	29.71	12	69.9	11.70	485.83	31.30	0.52	0.75	458.0	0.016
38	11/27/2002	11:52	73.4	29.65	20	68.9	19.50	505.32	33.85	0.54	0.78	476.3	0.017
39	12/3/2002	13:39	74.3	29.91	22	68.9	21.64	526.96	35.94	0.56	0.81	496.5	0.018
40	12/5/2002	11:44	74.3	29.53	15	69.1	14.56	541.52	36.58	0.58	0.83	510.1	0.018
41	12/9/2002	9:48	74.0	30.12	12	69.1	11.88	553.40	37.84	0.59	0.85	521.3	0.018
42	12/11/2002	10:33	74.3	29.50	14	69.4	13.57	566.96	38.48	0.61	0.87	534.0	0.019
43	12/16/2002	7:44	73.4	29.23	18	68.9	17.30	584.26	39.97	0.62	0.90	550.2	0.019
44	12/18/2002	9:05	74.3	30.00	7	68.8	6.91	591.17	40.59	0.63	0.91	556.7	0.020
45	12/20/2002	8:24	73.4	29.00	13	70.1	12.37	603.54	41.16	0.64	0.93	568.3	0.020
46	12/23/2002	7:16	73.4	29.50	10	68.9	9.70	613.24	42.02	0.65	0.94	577.4	0.020
47	12/27/2002	7:00	73.4	29.80	16	68.9	15.68	628.91	43.14	0.67	0.97	592.1	0.021
48	12/30/2002	14:30	74.3	29.68	10	69.1	9.75	638.67	44.05	0.68	0.98	601.2	0.021
49	1/2/2003	13:50	73.4	29.47	11	69.6	10.64	649.31	44.86	0.69	1.00	611.2	0.022
50	1/6/2003	12:54	74.3	29.41	12	68.8	11.61	660.92	45.90	0.71	1.02	622.1	0.022
51	1/9/2003	15:47	72.5	28.94	17	68.8	16.18	677.10	46.71	0.72	1.04	637.3	0.023
52	1/13/2003	14:17	73.4	29.41	14	68.5	13.55	690.64	47.71	0.74	1.06	649.9	0.023
53	1/17/2003	9:34	73.4	29.41	10	68.6	9.68	700.32	48.66	0.75	1.08	659.0	0.023
54	1/21/2003	15:20	71.6	29.50	10	68.1	9.71	710.03	49.69	0.76	1.09	668.1	0.024
55	1/24/2003	14:54	73.4	29.77	7	69.1	6.85	716.88	50.41	0.77	1.10	674.6	0.024
56	1/30/2003	9:32	73.4	29.91	10	68.8	9.84	726.72	51.77	0.78	1.12	683.8	0.024
57	2/11/2003	13:22	74.3	29.38	30	69.2	28.96	755.68	54.51	0.81	1.16	710.9	0.025
58	2/20/2003	11:31	72.5	29.83	17	68.8	16.68	772.36	56.44	0.82	1.19	726.6	0.026
59	2/27/2003	15:12	74.3	29.59	15	68.8	14.60	786.96	57.94	0.84	1.21	740.2	0.026
60	3/7/2003	12:35	74.3	29.80	17	68.9	16.66	803.61	59.55	0.86	1.24	755.8	0.027
61	3/13/2003	15:27	72.5	29.32	6	69.1	5.78	809.39	60.77	0.86	1.25	761.2	0.027
62	3/28/2003	12:53	72.5	29.65	20	70.0	19.46	828.85	63.65	0.88	1.28	779.6	0.028
63	4/9/2003	11:08	73.9	29.59	18	69.9	17.48	846.33	65.86	0.90	1.30	796.0	0.028
64	4/29/2003	12:13	74.3	29.41	34	70.5	32.78	879.11	69.41	0.94	1.35	826.7	0.029
65	5/21/2003	14:16	74.3	29.62	31	70.9	30.08	909.19	73.13	0.97	1.40	855.0	0.030
66	6/16/2003	13:25	74.3	29.65	35	72.1	33.92	943.10	77.28	1.01	1.45	886.9	0.031
67	7/28/2003	10:35	74.3	29.38	45	71.6	43.25	986.35	83.53	1.05	1.52	927.6	0.033
68	9/8/2003	12:47	73.4	29.59	50	73.6	48.22	1034.57	89.37	1.10	1.59	973.2	0.034
69	11/25/2003	13:40	73.4	29.71	46	69.3	44.90	1079.47	99.30	1.15	1.66	1015.4	0.036
70	12/7/2003	10:09	72.5	29.71	19	72.5	18.43	1097.90	100.72	1.17	1.69	1032.8	0.036
71	Stopped analyses												
72	Ash_content = 30.62 %												

Canister 1 – WV-02-B3-20

Enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)													
	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	m/gram	m/g	Headspace	Correction
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		Clock	'F		Volume	Temp.	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
		HH:MM		Hg	(milliliter)	'F	(milliliter)	(milliliter)	(hrs ^{1/2})	Mass	Mass	@ STP	Content
In Can													(SCF)
	10/15/2002	12:07	62.5	31.89	0	70.2	0.00	0.00	0.59	0.00	0.00	0.0	0.0
1	10/15/2002	12:17	62.5	31.89	18	70.2	18.83	18.83	0.72	0.03	0.03	18.1	0.001
2	10/15/2002	12:27	62.5	31.89	6	70.2	6.28	25.10	0.83	0.03	0.04	24.1	0.001
3	10/15/2002	12:37	63.6	31.89	3	70.1	3.14	28.24	0.92	0.04	0.04	27.1	0.001
4	10/15/2002	12:47	65.0	31.89	5	69.4	5.24	33.48	1.01	0.05	0.05	32.1	0.001
5	10/15/2002	12:57	65.6	31.89	4	69.5	4.19	37.67	1.09	0.05	0.06	36.1	0.001
6	10/15/2002	13:07	67.2	31.89	4	69.8	4.19	41.86	1.16	0.06	0.07	40.1	0.001
7	10/15/2002	13:17	67.7	31.86	4	70.1	4.18	46.04	1.23	0.06	0.07	44.0	0.002
8	10/15/2002	13:47	68.7	31.86	9	69.9	9.41	55.45	1.42	0.08	0.09	52.9	0.002
9	10/15/2002	14:47	68.1	31.83	15	69.6	15.68	71.12	1.74	0.10	0.11	67.8	0.002
10	10/15/2002	15:47	66.9	31.80	13	69.7	13.57	84.70	2.00	0.12	0.13	80.7	0.003
11	10/15/2002	16:47	65.4	31.77	12	69.8	12.51	97.21	2.24	0.13	0.15	92.6	0.003
12	10/15/2002	18:47	60.9	31.77	18	69.8	18.77	115.98	2.65	0.16	0.18	110.7	0.004
13	10/16/2002	10:39	53.1	28.50	56	69.5	52.42	168.39	4.78	0.23	0.26	161.8	0.006
14	10/16/2002	17:44	73.1	29.12	44	70.5	42.00	210.40	5.47	0.29	0.33	201.4	0.007
15	10/17/2002	13:56	73.3	29.44	67	70.3	64.68	275.08	7.08	0.38	0.43	262.2	0.009
16	10/18/2002	14:31	73.8	29.65	69	70.1	67.11	342.19	8.65	0.47	0.54	325.2	0.011
17	10/19/2002	14:58	74.4	29.56	60	70.1	58.18	400.37	9.96	0.55	0.63	379.8	0.013
18	10/20/2002	15:07	73.1	29.50	54	71.2	52.15	457.52	11.11	0.62	0.71	428.9	0.015
19	10/21/2002	15:58	73.2	29.65	46	72.7	44.52	492.05	12.17	0.69	0.78	471.0	0.017
20	10/22/2002	14:16	74.2	29.71	40	69.9	39.00	536.05	13.06	0.74	0.84	507.5	0.018
21	10/23/2002	17:15	73.7	29.77	43	69.9	42.01	578.06	14.05	0.80	0.91	547.0	0.019
22	10/24/2002	14:30	73.4	29.88	32	69.3	31.41	609.47	14.79	0.84	0.96	576.5	0.020
23	10/25/2002	15:24	74.3	29.85	33	69.2	32.37	641.84	15.61	0.89	1.01	606.8	0.021
24	10/26/2002	17:07	73.4	29.44	34	70.0	32.84	674.68	16.41	0.93	1.06	637.6	0.023
25	10/28/2002	12:05	75.2	29.65	40	69.9							

Canister 2 – WV-02-B3-21

Project: DOE/WVGES/USGS		Cumulative volume @ STP: 1150.7		Raw total gas (cc/g) 1.57	
Well ID: 306-061 (Quakertown)		Can no. WV-02-B3-21	Milliliters/gram raw coal: 1.56		DAF total gas (cc/g) 2.36
Sample interval (ft): From: 1475.6 To: 1476.43		10/15/2002		Raw total gas (SCF/ton) 50.33	
Core Date: (mm/dd/yr) 11/46		Milliliter/gram coal d.a.f.: 2.34		DAF total gas (SCF/ton) 75.65	
Time Zero-Cool penetrated (hh:mm) (24 hour clock) 11:46		(excluding lost gas)		Cuttings correction 25% (SCF/ton) N/A	
Raw coal mass (air-dry): (grams) 738		Lost gas estimate (cc) 10			
Coal mass (d.a.f.): (grams) 491		(from lost gas graph)			
Headspace volume: (cc) 0					
<div>Sample Type</div> <div> <input checked="" type="radio"/> Core <input type="radio"/> Cuttings </div>		<div>Data Summary</div> <div> <input checked="" type="radio"/> Preliminary <input type="radio"/> Final Results </div>			

enter data only in shaded areas, copy and paste formulas as needed to calculate more desorption data (columns H through N)

	Date	Time	Ambient	Pressure	Delta	Internal	Delta	Cumulative	Sq. Root	ml/gram	ml/g	Headspace	Correction
	(mm/dd/yr)	24 hour	Temp	inches	Gas	Canister	Volume	Volume	Elapsed	Raw	d.a.f	Cumulative	Cumulative
		HH:MM	°F	Hg	Volume	Temp	@ STP	@ STP	Time	Coal	Coal	Volume	Gas
In Can					(milliter)	°F	(milliter)	(milliter)	(Hrs ⁻¹)	Mass	Mass	@ STP	Content
	10/15/2002	12:09	62.5	31.89	0	70.2	0.00	0.00	0.62	0.00	0.00	0.0	0.0
1	10/15/2002	12:18	62.5	31.89	19	70.2	19.87	19.87	0.73	0.03	0.04	19.1	0.001
2	10/15/2002	12:29	62.5	31.89	6	70.2	6.28	26.15	0.85	0.04	0.05	25.1	0.001
3	10/15/2002	12:39	63.6	31.89	6	70.1	6.28	32.43	0.94	0.04	0.07	31.1	0.001
4	10/15/2002	12:49	65.0	31.89	4	69.4	4.19	36.62	1.02	0.05	0.07	35.1	0.001
5	10/15/2002	12:59	65.6	31.89	4	69.5	4.19	40.81	1.10	0.06	0.08	39.1	0.001
6	10/15/2002	13:09	67.2	31.89	4	69.8	4.19	44.99	1.18	0.06	0.09	43.1	0.002
7	10/15/2002	13:19	67.7	31.86	4	70.1	4.18	49.17	1.24	0.07	0.10	47.0	0.002
8	10/15/2002	13:49	68.7	31.86	10	69.9	10.46	59.63	1.43	0.08	0.12	56.9	0.002
9	10/15/2002	14:49	68.1	31.83	15	69.6	15.68	75.31	1.75	0.10	0.15	71.8	0.003
10	10/15/2002	15:49	66.9	31.80	13	69.7	13.57	88.88	2.01	0.12	0.18	84.7	0.003
11	10/15/2002	16:49	65.4	31.77	11	69.8	11.47	100.35	2.25	0.14	0.20	95.6	0.003
12	10/15/2002	18:49	60.9	31.77	16	69.8	16.68	117.03	2.66	0.16	0.24	111.7	0.004
13	10/16/2002	10:41	53.1	28.50	52	69.5	48.67	165.70	4.79	0.22	0.34	159.2	0.006
14	10/16/2002	17:45	73.1	29.12	32	70.5	30.55	196.25	5.48	0.27	0.40	187.9	0.007
15	10/17/2002	13:57	73.3	29.44	42	70.3	40.55	236.80	7.08	0.32	0.48	226.1	0.008
16	10/18/2002	14:32	73.8	29.65	42	70.1	40.85	277.65	8.65	0.38	0.57	264.4	0.009
17	10/19/2002	14:49	74.4	29.56	35	70.1	33.94	311.59	9.95	0.42	0.63	296.2	0.010
18	10/20/2002	15:09	73.1	29.50	32	70.2	30.96	342.55	11.11	0.46	0.70	325.4	0.011
19	10/21/2002	15:58	73.2	29.65	26	72.7	25.17	367.72	12.17	0.50	0.75	349.1	0.012
20	10/22/2002	14:16	74.2	29.71	32	69.9	31.20	398.92	13.06	0.54	0.81	378.4	0.013
21	10/23/2002	17:15	73.7	29.77	24	69.9	23.45	422.36	14.05	0.57	0.86	400.4	0.014
22	10/24/2002	14:32	73.4	29.88	19	69.3	18.65	441.02	14.79	0.60	0.90	417.9	0.015
23	10/25/2002	15:25	74.3	29.85	20	69.2	19.62	460.63	15.61	0.62	0.94	436.3	0.015
24	10/26/2002	17:07	73.4	29.44	27	70.0	26.08	486.72	16.41	0.66	0.99	460.8	0.016
25	10/28/2002	12:06	75.2	29.65	22	69.9	21.41	508.12	17.67	0.69	1.03	480.8	0.017
26	10/29/2002	13:12	73.4	29.59	16	69.2	15.56	523.68	18.37	0.71	1.07	495.4	0.017
27	10/30/2002	15:27	73.4	29.41	14	68.9	13.54	537.22	19.07	0.73	1.09	508.1	0.018
28	10/31/2002	13:30	74.3	29.56	12	69.3	11.65	548.87	19.64	0.74	1.12	519.0	0.018
29	11/1/2002	14:59	73.4	29.50	14	69.3	13.57	562.44	20.28	0.76	1.15	531.8	0.019
30	11/4/2002	14:28	73.4	29.53	18	68.9	17.48	579.92	21.97	0.79	1.18	548.2	0.019
31	11/5/2002	13:58	73.4	29.59	10	69.3	9.72	589.64	22.50	0.80	1.20	557.3	0.020
32	11/6/2002	15:13	73.4	29.12	8	69.9	7.65	597.28	23.05	0.81	1.22	564.5	0.020
33	11/7/2002	14:02	73.4	29.62	7	69.5	6.81	604.09	23.54	0.82	1.23	570.8	0.020
34	11/8/2002	12:33	73.1	29.62	7	69.3	6.81	610.91	24.02	0.83	1.24	577.2	0.020
35	11/12/2002	13:28	74.3	29.50	25	70.7	24.17	635.07	25.96	0.86	1.29	599.9	0.021
36	11/13/2002	12:10	73.4	29.56	10	67.9	9.74	644.81	26.39	0.87	1.31	609.1	0.022
37	11/15/2002	7:53	73.4	29.53	15	69.1	14.56	659.37	27.21	0.89	1.34	622.7	0.022
38	11/18/2002	13:26	74.3	29.71	15	69.2	14.64	674.01	28.59	0.91	1.37	636.4	0.022
39	11/20/2002	13:18	73.4	29.71	16	69.9	15.60	689.61	29.42	0.93	1.40	651.1	0.023
40	11/27/2002	11:27	73.4	29.65	27	68.9	26.32	715.93	32.12	0.97	1.46	675.8	0.024
41	12/3/2002	13:40	74.3	29.91	26	68.9	25.57	741.50	34.32	1.00	1.51	699.7	0.025
42	12/5/2002	11:45	74.3	29.53	19	69.1	18.44	759.94	34.99	1.03	1.55	717.0	0.025
43	12/9/2002	9:50	74.3	30.12	15	69.1	14.85	774.79	36.31	1.05	1.58	730.9	0.026
44	12/11/2002	10:34	74.3	29.50	21	69.4	20.35	795.14	36.97	1.08	1.62	749.9	0.026
45	12/16/2002	7:45	73.4	29.23	12	68.9	11.53	806.67	38.52	1.09	1.64	760.7	0.027
46	12/18/2002	9:06	74.3	30.00	13	68.8	12.83	819.50	39.16	1.11	1.67	772.7	0.027
47	12/20/2002	8:25	73.4	29.00	15	70.1	14.27	833.77	39.76	1.13	1.70	786.1	0.028
48	12/23/2002	7:17	73.4	29.50	10	68.9	9.70	843.47	40.64	1.14	1.72	795.2	0.028
49	12/27/2002	7:01	73.4	29.80	15	68.9	14.70	858.17	41.80	1.16	1.75	809.0	0.029
50	12/30/2002	14:31	74.3	29.68	10	69.1	9.75	867.92	42.74	1.18	1.77	818.2	0.029
51	1/2/2003	13:51	73.4	29.47	10	69.6	9.68	877.60	43.57	1.19	1.79	827.2	0.029
52	1/6/2003	12:55	74.3	29.41	10	68.8	9.67	887.27	44.64	1.20	1.81	836.3	0.030
53	1/9/2003	15:48	72.5	28.94	18	68.8	17.13	904.40	45.48	1.23	1.84	852.4	0.030
54	1/13/2003	14:18	73.4	29.41	14	68.5	13.55	917.95	46.50	1.24	1.87	865.1	0.031
55	1/17/2003	9:35	73.4	29.41	10	68.6	9.68	927.62	47.47	1.26	1.89	874.1	0.031
56	1/21/2003	15:21	71.6	29.50	9	68.1	8.74	936.37	48.53	1.27	1.91	882.3	0.031
57	1/24/2003	14:55	73.4	29.77	6	69.1	5.87	942.24	49.27	1.28	1.92	887.9	0.031
58	1/30/2003	9:32	73.4	29.91	9	68.8	8.85	951.09	50.65	1.29	1.94	896.2	0.032
59	2/1/2003	13:23	74.3	29.38	26	69.2	25.10	976.19	53.46	1.32	1.99	919.7	0.032
60	2/20/2003	11:32	72.5	29.83	14	68.8	13.73	998.92	55.42	1.34	2.02	932.6	0.033
61	2/27/2003	15:13	74.3	29.59	16	68.8	15.57	1005.49	56.95	1.36	2.05	947.1	0.033
62	3/7/2003	12:36	74.3	29.80	15	68.9	14.70	1020.19	58.59	1.38	2.08	960.9	0.034
63	3/13/2003	15:28	72.5	29.32	13	69.1	12.53	1032.72	59.83	1.40	2.10	972.7	0.034
64	3/28/2003	12:54	72.5	29.65	15	70.0	14.59	1047.31	62.75	1.42	2.13	986.4	0.035
65	4/9/2003	11:11	73.9	29.59	13	69.6	12.63	1059.94	64.99	1.44	2.16	998.2	0.035
66	4/29/2003	12:14	74.3	29.41	27	70.5	26.03	1085.97	68.59	1.47	2.21	1022.7	0.036
67	5/21/2003	14:17	74.3	29.62	22	70.9	21.34	1107.32	72.35	1.50	2.26	1042.7	0.037
68	6/16/2003	13:26	74.3	29.65	24	72.1	23.26	1130.57	76.54	1.53	2.30	1064.6	0.038
69	7/28/2003	10:36	74.3	29.38	30	71.6	28.83	1159.41	82.84	1.57	2.36	1091.7	0.039
70	9/8/2003	12:49	73.4	29.59	27.5	73.6	26.52	1185.92	88.73	1.61	2.42	1116.8	0.039
71	11/25/2003	13:44	73.4	29.71	25	69.3	24.40	1210.33	98.72	1.64	2.47	1139.7	0.040
72	12/7/2003	10:10	72.5	29.71	12	72.5	11.64	1221.97	100.15	1.66	2.49	1150.7	0.041
73		Stopped analyses											
74		Measured ash content = 33.48 %											