



United States Environmental Protection Agency
Underground Injection Control
Permit Application for a Class II Well
*(Collected under the authority of the Safe Drinking Water Act.
 Sections 1421, 1422, and 40 CFR Part 144)*

For Official Use Only

Date Received

Permit Number

Read Attached Instructions Before Starting

I. Owner Name, Address, Phone Number and/or Email

Pocahontas Gas LLC
 PO Box 570
 Pounding Mill, VA 24637

II. Operator Name, Address, Phone Number and/or Email

Pocahontas Gas LLC
 PO Box 570
 Pounding Mill, VA 24637

III. Commercial Facility

☐ Yes
☒ No

IV. Ownership

☒ Private
☐ Federal
☐ State/Tribal/
 Municipal

V. Permit Action Requested

☐ New Permit
☒ Permit Renewal
☐ Modification
☐ Add Well to Area Permit
☐ Other

VI. SIC Code(s)

1311

VII. Indian Country

☐ Yes
☒ No

VIII. Type of Permit (For multiple wells, use additional page(s) to provide the information requested for each additional well)

☒ A. Individual
☐ B. Area

Number of Wells
 1

Well Field and/or Project Names

Central Appalachia, Oakwood Field

IX. Class and Type of Well (see reverse)

A. Class

II

B. Type (enter code(s))

D

C. If type code is "X," explain.

X. Well Status

☒ A. Operating ☐ B. Conversion ☐ C. Proposed
 Date Injection Started 12/16/1994 Date Well Constructed 10/18/1994

XI. Well Information

API Number 450270080300
 Permit (or EPA ID) Number VAS2D926BBUC
 Full Well Name U7

XII. Location of Well or, for Multiple Wells, Approximate Center of Field or Project

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location

1/4 of 1/4 of Section Township Range

ft. from (N/S) Line of quarter section

ft. from (E/W) Line of quarter section.

Latitude 37 11' 02"

Longitude -82 04' 54"

XIII. Attachments

In addition to this form, complete Attachments A-U (as appropriate for the specific well class) on separate sheets. Submit complete information, as required in the instructions and list all attachments, maps or other figures, by the applicable letter.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please Type or Print)

Craig W. Neal, VP operations

Signature

Craig W. Neal

Date Signed

Feb. 11, 2020

Table of All Wells

Summary of Well Information

WELL NUMBER	OPERATOR	VA SOUTH		STATE PLANE	WELL TYPE	FORMATION	DATE DRILLED	CASING CONDUCTOR	SURFACE	WATER PROTECTION	COAL PROTECTION	TOTAL DEPTH (FT)
		NAD 83	N									
T3	POCAHONTAS GAS LLC	3,613,352.25	10,432,019.52	PRODUCING/CBM	POCAHONTAS #3	12/23/1990	98	438				2422
T4	POCAHONTAS GAS LLC	3,613,270.35	10,434,290.87	PRODUCING/CBM	POCAHONTAS #3	8/9/1992	28	449			2363	2262
T4B	POCAHONTAS GAS LLC	3,613,251.22	10,433,049.77	PRODUCING/CBM	POCAHONTAS #3	6/18/2010	13	253			2187	2495
T5	POCAHONTAS GAS LLC	3,612,155.73	10,436,493.17	PRODUCING/CBM	POCAHONTAS #3	12/30/1992	34	390			2307	1571
T5A	POCAHONTAS GAS LLC	3,613,254.73	10,435,388.87	PRODUCING/CBM	POCAHONTAS #3	10/14/2010	13	211			1494	2350
U3A	POCAHONTAS GAS LLC	3,610,438.30	10,432,157.30	PRODUCING/CBM	POCAHONTAS #3	11/2/2011	11	281			2148	2070
U3B	POCAHONTAS GAS LLC	3,610,740.69	10,432,365.30	PRODUCING/CBM	POCAHONTAS #3	10/26/2011	10	281			1882	2515
U4	POCAHONTAS GAS LLC	3,610,318.02	10,433,303.79	PRODUCING/CBM	POCAHONTAS #3	10/11/2005	31	308			2460	2605
U6B	POCAHONTAS GAS LLC	3,610,981.13	10,437,322.61	PRODUCING/CBM	POCAHONTAS #3	3/29/2011	31	250	549		2437	2318
U8	POCAHONTAS GAS LLC	3,610,754.91	10,441,236.08	PRODUCING/CBM	POCAHONTAS #3	2/18/2007	28	355			2300	2080
V3	POCAHONTAS GAS LLC	3,609,236.02	10,431,938.06	PRODUCING/CBM	POCAHONTAS #3	10/24/2005	13	223			2057	2390
V4	POCAHONTAS GAS LLC	3,608,891.19	10,433,665.71	PRODUCING/CBM	POCAHONTAS #3	10/17/2005	12	310			2238	2605
V8	POCAHONTAS GAS LLC	3,608,230.81	10,440,223.07	PRODUCING/CBM	POCAHONTAS #3	8/20/2007	8	309			2417	1880
V9A	POCAHONTAS GAS LLC	3,607,836.63	10,443,137.40	PRODUCING/CBM	POCAHONTAS #3	3/20/1998	21	725			1697	1789
W4	POCAHONTAS GAS LLC	3,606,553.67	10,433,108.89	PRODUCING/CBM	POCAHONTAS #3	3/16/2006	20	221				2375
W4A	POCAHONTAS GAS LLC	3,606,499.06	10,433,747.64	PRODUCING/CBM	POCAHONTAS #3	1/20/2012	38	212			2253	2525
W5	POCAHONTAS GAS LLC	3,607,589.74	10,435,830.96	PRODUCING/CBM	POCAHONTAS #3	3/12/2007	24	398			2362	2250
W5A	POCAHONTAS GAS LLC	3,606,908.70	10,434,965.94	PRODUCING/CBM	POCAHONTAS #3	3/16/2007	25	309	752		2240	2545
W8	POCAHONTAS GAS LLC	3,605,911.09	10,441,100.94	PRODUCING/CBM	POCAHONTAS #3	9/13/2005	25	442			2536	1515
W8A	POCAHONTAS GAS LLC	3,606,128.35	10,441,286.08	PRODUCING/CBM	POCAHONTAS #3	9/2/2005	36	455				1493
W8C	POCAHONTAS GAS LLC	3,607,208.09	10,441,264.36	PRODUCING/CBM	POCAHONTAS #3	9/21/2005	10	499				1681
W8D	POCAHONTAS GAS LLC	3,607,532.38	10,441,335.40	PRODUCING/CBM	POCAHONTAS #3	9/24/2005	11	545				1583
W8E	POCAHONTAS GAS LLC	3,607,249.80	10,441,278.12	PRODUCING/CBM	POCAHONTAS #3	9/30/2005	20	517				1607
W9A	POCAHONTAS GAS LLC	3,606,709.25	10,443,122.46	PRODUCING/CBM	POCAHONTAS #3	2/14/2000	12	513				1409
X4	POCAHONTAS GAS LLC	3,604,855.46	10,433,006.83	PRODUCING/CBM	POCAHONTAS #3	7/26/2001	23	221				2404
X4A	POCAHONTAS GAS LLC	3,605,740.27	10,433,555.11	PRODUCING/CBM	POCAHONTAS #3	6/11/2007	32	221			2316	2590
X8	POCAHONTAS GAS LLC	3,605,765.24	10,441,035.57	PRODUCING/CBM	POCAHONTAS #3	9/10/2005	20	448			2430	1514
Y4A	POCAHONTAS GAS LLC	3,603,887.58	10,433,246.92	PRODUCING/CBM	POCAHONTAS #3	10/7/2008	9	297				2639
Y5A	POCAHONTAS GAS LLC	3,603,762.35	10,435,955.35	PRODUCING/CBM	POCAHONTAS #3	12/18/2007	21	445			2502	2350
Y7A	POCAHONTAS GAS LLC	3,603,529.44	10,438,497.56	PRODUCING/CBM	POCAHONTAS #3	8/13/2008	13	221			2216	2435
Y9A	POCAHONTAS GAS LLC	3,603,835.39	10,442,408.63	PRODUCING/CBM	POCAHONTAS #3	3/4/1998	20	642			2337	1830
											1748	
L-86	ISLAND CREEK COAL CO.	3,611,983.99	10,439,159.41	PLUGGED/CORE	POCAHONTAS #3	1957	DNA					1576
L-108	ISLAND CREEK COAL CO.	3,612,441.82	10,434,057.22	PLUGGED/CORE	POCAHONTAS #3	1959	DNA					1791
L-111	ISLAND CREEK COAL CO.	3,606,779.28	10,439,116.24	PLUGGED/CORE	POCAHONTAS #3	1959	DNA					1462
L-114	ISLAND CREEK COAL CO.	3,604,361.12	10,437,041.30	PLUGGED/CORE	POCAHONTAS #3	1958	DNA					1963
L-117	ISLAND CREEK COAL CO.	3,608,689.74	10,435,713.85	PLUGGED/CORE	POCAHONTAS #3	1959	DNA					1805
L-201	ISLAND CREEK COAL CO.	3,609,502.54	10,437,585.69	PLUGGED/CORE	POCAHONTAS #3	1971	DNA					1646
L-203	ISLAND CREEK COAL CO.	3,604,055.38	10,443,044.43	PLUGGED/CORE	DNA	DNA						DNA
L-221	ISLAND CREEK COAL CO.	3,608,657.64	10,441,114.15	PLUGGED/CORE	POCAHONTAS #3	1974	DNA					1460
L-222	ISLAND CREEK COAL CO.	3,610,138.21	10,442,469.78	PLUGGED/CORE	POCAHONTAS #3	1974	DNA					1468
L-223	ISLAND CREEK COAL CO.	3,609,387.85	10,440,790.43	PLUGGED/CORE	POCAHONTAS #3	1974	DNA					1465
L-230	ISLAND CREEK COAL CO.	3,609,695.79	10,441,565.08	PLUGGED/CORE	POCAHONTAS #3	1974	DNA					1365

<u>WELL</u> <u>NUMBER</u>	<u>OPERATOR</u>	<u>VA SOUTH</u>		<u>STATE PLANE</u>	<u>WELL TYPE</u>	<u>FORMATION</u>	<u>DATE DRILLED</u>	<u>CASING</u>	<u>SURFACE</u>	<u>WATER</u>	<u>COAL</u>	<u>TOTAL</u>
		<u>NAD 83</u>	<u>N</u>					<u>CONDUCTOR</u>		<u>PROTECTION</u>	<u>PROTECTION</u>	<u>DEPTH (FT)</u>
V5-90	POCAHONTAS GAS LLC	3,608,332.30		10,435,667.91	SHUT IN/CBM	POCAHONTAS #3	10/7/1979	43	250		1838	1852
VVH-91	ISLAND CREEK COAL CO	3,606,772.65		10,435,633.24	PLUGGED/CBM	POCAHONTAS #3	DNA					2275
VVH-92	ISLAND CREEK COAL CO	3,607,549.03		10,435,565.01	PLUGGED/CBM	POCAHONTAS #3	DNA					2122
VVH-93	ISLAND CREEK COAL CO	3,609,289.14		10,435,419.95	PLUGGED/CBM	POCAHONTAS #3	DNA					1571
VVH-104	ISLAND CREEK COAL CO	3,609,069.80		10,437,997.23	PLUGGED/CBM	DNA	DNA					DNA
VVH-105	ISLAND CREEK COAL CO	3,609,202.05		10,436,572.78	PLUGGED/CBM	POCAHONTAS #3	DNA					1703
VVH-112	ISLAND CREEK COAL CO	3,608,424.60		10,437,174.50	PLUGGED/CBM	POCAHONTAS #3	DNA					1785
VVH-113	ISLAND CREEK COAL CO	3,608,302.54		10,438,187.75	PLUGGED/CBM	POCAHONTAS #3	DNA					1984
VVH-115	ISLAND CREEK COAL CO	3,607,481.61		10,438,019.77	PLUGGED/CBM	DNA	DNA					DNA
VVH-116	ISLAND CREEK COAL CO	3,607,513.71		10,436,911.74	PLUGGED/CBM	DNA	DNA					DNA
VVH-168	ISLAND CREEK COAL CO	3,606,581.61		10,438,940.09	PLUGGED/CBM	POCAHONTAS #3	1987	DNA				1507
5HLMR2	ISLAND CREEK COAL CO	3,609,714.69		10,442,026.97	PLUGGED/TEST HOLE	POCAHONTAS #3	DNA					1391
5H20BH	ISLAND CREEK COAL CO	3,609,548.59		10,441,964.13	PLUGGED/WATER SUPPL	POCAHONTAS #3	DNA					1429
5RKDST	ISLAND CREEK COAL CO	3,609,550.24		10,441,905.07	PLUGGED/ROCK DUST	POCAHONTAS #3	DNA					1416
5NIT2	ISLAND CREEK COAL CO	3,607,900.90		10,435,352.00	MONITORING WELL	POCAHONTAS #3	DNA				2135	2135

Geologic Well Logs

PAGE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM: ICI092686-003-3.00

LOG=[] [VNSNT] [VA] [2 1: 24000.] ID= 165

IDENTIFICATION SECTION

1. QUAD NAME: VNSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 165
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: CB-T3
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DDH#: CB-T3

COORDINATES OF HOLE OR SECTION

- 10.1 UTM ZONE (- FOR SOUTH):
- 10.2 UTM NORTHING:
- 10.3 UTM EASTING:
- 15.1 COMPANY GRID N/S: 25349.65
- 15.2 COMPANY GRID E/W: 12952.31

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCHANAN
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE: GARDEN
20. GROUND LOCATION DESCRIPTION: MOTT BRANCH

HOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 2290.00 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: GLS
24. YEAR DRILLED OR MEASURED: 1991
25. TOTAL DEPTH OF DRILL HOLE: F 2426.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: BLR
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC3
- 29.1 KIND OF RECORD: E
- 29.2 METHOD OF LITHO DESCRIPTION: 1[CODE]
- 30.1 UNITS OF MEASUREMENT: 2[FT]
- 30.2 METHOD(S) OF MEASUREMENT: 1[THK]

LOG=[] [VNSNT] [VA] [2 1: 24000.] ID= 165

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	021	COMMON BANDED COAL	STRIP BENCH	.000	.000
		* BED:BLR 10 BLR 10			
2	001	CASING OR SURFACE		324.000	324.000
3	005	OPEN MINE	DOM.#14 MINE	329.000	5.000
		* BED:HGY 10 HGY 10			
4	001	CASING OR SURFACE		429.000	100.000
5	500	SS		453.000	24.000
6	300	SDY SH		470.000	17.000
7	100	SH (UNDIF)		476.000	6.000
8	300	SDY SH		484.000	8.000
9	100	SH (UNDIF)		491.000	7.000
10	500	SS		495.200	4.200
11	021	COMMON BANDED COAL		496.200	1.000
		* BED:UBN 20 UBN 20			
12	100	SH (UNDIF)		500.000	3.800
13	500	SS		531.000	31.000
14	100	SH (UNDIF)		543.000	12.000
15	500	SS		547.000	4.000
16	300	SDY SH		565.000	18.000
17	100	SH (UNDIF)		576.000	11.000
18	021	COMMON BANDED COAL		577.000	1.000
		* BED:LBN 10 LBN 10			
19	300	SDY SH		586.000	9.000
20	100	SH (UNDIF)		594.000	8.000
21	300	SDY SH		610.000	16.000
22	503	SS W/SH STKS		639.000	29.000
23	100	SH (UNDIF)		645.500	6.500
24	021	COMMON BANDED COAL		646.000	.500
		* BED:BGF 10			
25	100	SH (UNDIF)		646.500	.500
26	034	BONE		647.000	.500
		* BED:BGF 10			
27	300	SDY SH		649.000	2.000
28	100	SH (UNDIF)		653.000	4.000
29	300	SDY SH		683.000	30.000
30	100	SH (UNDIF)		720.000	37.000
31	300	SDY SH		743.000	23.000
32	100	SH (UNDIF)		762.000	19.000
33	021	COMMON BANDED COAL		763.000	1.000
		* BED:KEN 10 KEN 10			
34	300	SDY SH		768.000	5.000
35	503	SS W/SH STKS		778.000	10.000
36	300	SDY SH		784.400	6.400
37	021	COMMON BANDED COAL		786.200	1.800
		* BED:KEN 20 KEN 20			
38	100	SH (UNDIF)		791.000	4.800
39	500	SS		860.000	69.000
	300	SDY SH		873.000	13.000
40	100	SH (UNDIF)		877.000	4.000
42	300	SDY SH		888.000	11.000

LOG=[] [VNSNT] [VA] [2 1: 24000.] ID= 165

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	100	SH (UNDIF)		891.000	3.000
44	021	COMMON BANDED COAL		892.000	1.000
		* BED:ALY 10 ALY 10			
45	300	SDY SH		894.000	2.000
46	100	SH (UNDIF)		896.000	2.000
47	300	SDY SH		902.000	6.000
48	500	SS		922.000	20.000
49	100	SH (UNDIF)		926.700	4.700
50	021	COMMON BANDED COAL		928.200	1.500
		* BED:ALY 20			
51	100	SH (UNDIF)		929.500	1.300
52	034	BONE		930.000	.500
		* BED:ALY 20			
53	100	SH (UNDIF)		934.000	4.000
54	300	SDY SH		936.000	2.000
55	500	SS		943.000	7.000
56	300	SDY SH		951.000	8.000
57	100	SH (UNDIF)		962.000	11.000
58	300	SDY SH		968.000	6.000
59	100	SH (UNDIF)		971.000	3.000
	034	BONE		971.500	.500
		* BED:RVN 10 RVN 10			
61	100	SH (UNDIF)		974.000	2.500
62	300	SDY SH		999.000	25.000
63	100	SH (UNDIF)		1001.000	2.000
64	021	COMMON BANDED COAL		1002.800	1.800
		* BED:RVN 20 RVN 20			
65	100	SH (UNDIF)		1036.000	33.200
66	021	COMMON BANDED COAL		1036.500	.500
		* BED:RVN 30 RVN 30			
67	300	SDY SH		1085.000	48.500
68	100	SH (UNDIF)		1094.000	9.000
69	300	SDY SH		1096.000	2.000
70	021	COMMON BANDED COAL		1097.000	1.000
		* BED:JAW 10 JAW 10			
71	503	SS W/SH STKS		1135.000	38.000
72	100	SH (UNDIF)		1140.200	5.200
73	021	COMMON BANDED COAL		1140.800	.600
		* BED:JAW 20			
74	100	SH (UNDIF)		1141.000	.200
75	021	COMMON BANDED COAL		1141.900	.900
		* BED:JAW 20			
76	300	SDY SH		1153.000	11.100
77	100	SH (UNDIF)		1160.000	7.000
78	500	SS		1195.000	35.000
79	300	SDY SH		1206.000	11.000
	503	SS W/SH STKS		1217.000	11.000
	021	COMMON BANDED COAL		1218.300	1.300
		* BED:TIL 20 TIL 20			
82	500	SS		1221.000	2.700

PAGE: 4 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM: ICI092686-003-3.00

LOG=[1 [VNSNT 1 [VA] [2 1: 24000.] 10= 165

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
83	100	SH (UNDIF)		1226.000	5.000
84	021	COMMON BANDED COAL		1227.000	1.000
		* BED:TIL 30 TIL 30			
85	100	SH (UNDIF)		1229.000	2.000
86	500	SS		1275.000	46.000
87	300	SDY SH		1308.000	33.000
88	100	SH (UNDIF)		1311.000	3.000
89	300	SDY SH		1319.000	8.000
90	100	SH (UNDIF)		1325.800	6.800
91	030	IMPURE COAL		1326.200	.400
		* BED:USB 10			
92	100	SH (UNDIF)		1326.500	.300
93	021	COMMON BANDED COAL		1327.000	.500
		* BED:USB 10			
94	100	SH (UNDIF)		1334.000	7.000
95	300	SDY SH		1340.000	6.000
96	503	SS W/SH STKS		1412.000	72.000
97	500	SS		1437.000	25.000
98	500	SS		1439.000	2.000
99	560	HARD SS		1458.000	19.000
	503	SS W/SH STKS		1468.000	10.000
100	550	XTLIZED SS		1497.000	29.000
101	500	SS		1512.000	15.000
102	500	SS		1532.000	20.000
103	100	SH (UNDIF)		1553.000	21.000
104	300	SDY SH		1553.500	.500
105	034	BONE		1554.000	.500
106	100	SH (UNDIF)		1555.000	1.000
107	021	COMMON BANDED COAL			
		* BED:MSB 10 MSB 10			
108	300	SDY SH		1563.000	8.000
109	500	SS		1571.000	8.000
110	100	SH (UNDIF)		1582.000	11.000
111	034	BONE		1583.000	1.000
		* BED:MSB 20 MSB 20			
112	503	SS W/SH STKS		1661.000	78.000
113	300	SDY SH		1674.000	13.000
114	100	SH (UNDIF)		1675.000	1.000
115	034	BONE		1676.000	1.000
		* BED:UHP 10			
116	100	SH (UNDIF)		1682.000	6.000
117	021	COMMON BANDED COAL		1683.000	1.000
118	100	SH (UNDIF)		1684.000	1.000
119	034	BONE		1684.500	.500
		* BED:UHP 10			
120	100	SH (UNDIF)		1689.000	4.500
121	503	SS W/SH STKS		1700.000	11.000
	100	SH (UNDIF)		1704.800	4.800
	021	COMMON BANDED COAL		1706.000	1.200
		* BED:UHP 20 UHP 20			
124	300	SDY SH		1714.000	8.000

LOG=[] [VNSNT] [] [VA] [2 1: 24000.] ID= 165

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
125	100	SH (UNDIF)		1726.000	12.000
126	021	COMMON BANDED COAL		1727.000	1.000
		* BED:MHP 10 MHP 10			
127	300	SDY SH		1760.000	33.000
128	500	SS		1779.000	19.000
129	300	SDY SH		1830.000	51.000
130	500	SS		1839.000	9.000
131	300	SDY SH		1867.000	28.000
132	100	SH (UNDIF)		1867.500	.500
133	021	COMMON BANDED COAL		1868.000	.500
		* BED:WRC 20 WRC 20			
134	100	SH (UNDIF)		1871.000	3.000
135	503	SS W/SH STKS		1887.000	16.000
136	500	SS		1902.900	15.900
137	021	COMMON BANDED COAL		1903.200	.300
		* BED:LHP 10			
138	100	SH (UNDIF)		1903.800	.600
139	034	BONE		1904.000	.200
140	100	SH (UNDIF)		1904.400	.400
141	034	BONE		1904.600	.200
		* BED:LHP 10			
142	100	SH (UNDIF)		1908.500	3.900
143	034	BONE		1908.800	.300
144	100	SH (UNDIF)		1911.500	2.700
145	021	COMMON BANDED COAL		1911.950	.450
		* BED:LHP 20			
146	100	SH (UNDIF)		1912.200	.250
147	021	COMMON BANDED COAL		1913.100	.900
148	100	SH (UNDIF)		1913.300	.200
149	034	BONE		1913.500	.200
		* BED:LHP 20			
150	300	SDY SH		1919.000	5.500
151	503	SS W/SH STKS		1955.000	36.000
152	100	SH (UNDIF)		1967.500	12.500
153	034	BONE		1967.900	.400
		* BED:PC9 10			
154	100	SH (UNDIF)		1968.200	.300
155	021	COMMON BANDED COAL		1970.500	2.300
156	034	BONE		1971.000	.500
		* BED:PC9 10			
157	100	SH (UNDIF)		1974.000	3.000
158	300	SDY SH		1982.000	8.000
159	034	BONE		1983.000	1.000
160	300	SDY SH		1991.000	8.000
161	100	SH (UNDIF)		2006.500	15.500
162	021	COMMON BANDED COAL		2008.000	1.500
		* BED:PC9 20 PC9 20			
163	100	SH (UNDIF)		2015.500	7.500
164	503	SS W/SH STKS		2023.000	7.500
165	100	SH (UNDIF)		2035.000	12.000

PAGE: 6 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM: ICI092686-003-3.00

OG=[] [VNSNT] [VA] [2 1: 24000.] ID= 165

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
166	300	SDY SH		2073.400	38.400
167	503	SS W/SH STKS		2087.400	14.000
168	500	SS		2094.400	7.000
169	560	HARD SS		2104.400	10.000
170	100	SH (UNDIF)		2106.400	2.000
171	300	SDY SH		2120.900	14.500
172	550	XTLIZED SS		2208.150	87.250
173	020	COAL		2208.650	.500
		* BED:PC6 10 PC6 10			
174	500	SS		2213.400	4.750
175	100	SH (UNDIF)		2214.400	1.000
176	560	HARD SS		2235.400	21.000
177	500	SS		2251.400	16.000
178	560	HARD SS		2292.400	41.000
179	550	XTLIZED SS		2313.900	21.500
180	034	BONE		2314.400	.500
		* BED:PC4 10			
181	100	SH (UNDIF)		2314.700	.300
182	021	COMMON BANDED COAL		2315.200	.500
		* BED:PC4 10			
	100	SH (UNDIF)		2324.400	9.200
184	300	SDY SH		2330.400	6.000
185	100	SH (UNDIF)		2345.400	15.000
186	503	SS W/SH STKS		2355.400	10.000
187	300	SDY SH		2357.400	2.000
188	503	SS W/SH STKS		2367.200	9.800
189	021	COMMON BANDED COAL		2368.600	1.400
		* BED:PC3 10 PC3 10			
190	100	SH (UNDIF)		2368.700	.100
191	021	COMMON BANDED COAL		2373.450	4.750
		* BED:PC3 20 PC3 20			
192	100	SH (UNDIF)		2373.600	.150
193	021	COMMON BANDED COAL		2373.900	.300
		* BED:PC3 30 PC3 30			
194	100	SH (UNDIF)		2377.000	3.100
195	034	BONE		2377.500	.500
		* BED:PC3 40 PC3 40			
196	300	SDY SH		2395.500	18.000
197	100	SH (UNDIF)		2397.500	2.000
198	300	SDY SH		2399.500	2.000
199	100	SH (UNDIF)		2401.000	1.500
200	503	SS W/SH STKS		2426.000	25.000

WEE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:IC1092686-003-T.00

W=I 1 [VNSNT] 1 [VA] [2 1: 24000.] ID= 166

IDENTIFICATION SECTION

1. QUAD NAME: VNSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LEE ID #: 166
5. UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: CB-T4
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DRH#: CB-T4

COORDINATES OF HOLE OR SECTION

10.1 UTM ZONE (- FOR SOUTH):
10.2 UTM NORTHING:
10.3 UTM EASTING:
11.1 COMPANY GRID N/S: 25336.68
11.2 COMPANY GRID E/W: 15222.82

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: RICHMOND
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE: GARDEN
20. SOUND LOCATION DESCRIPTION: MOTT BRANCH

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 2155.52 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: GLS
24. YEAR DRILLED OR MEASURED: 1991
25. TOTAL DEPTH OF DRILL HOLE: F 2262.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: B6F
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
29.1 KIND OF RECORD: E
29.2 METHOD OF LITHO DESCRIPTION: 1[CODE]
30.1 UNITS OF MEASUREMENT: 2[FT]
30.2 METHOD(S) OF MEASUREMENT: 1[THK]

PAGE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH-THICKNESS DATA IN FEET

SERIAL NUM:101092-99-003-0.00

([1] [UNSAT] [1] [VA] [2] [24000.] [10] = 166

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OF SURFACE		438.000	438.000
2	300	SDY SH		458.000	22.000
3	034	BONE		459.500	.500
4	021	COMMON BANDED COAL		460.000	1.500
		* BED:BGF 10			
5	100	SH (UNDIF)		460.500	.500
6	034	BONE		461.000	.500
		* BED:BGF 10			
7	100	SH (UNDIF)		468.000	7.000
8	300	SDY SH		497.000	29.000
9	100	SH (UNDIF)		535.000	38.000
10	300	SDY SH		542.000	7.000
11	100	SH (UNDIF)		586.600	44.600
12	034	BONE		587.000	.200
		* BED:KEN 10			
13	100	SH (UNDIF)		587.100	.100
14	034	BONE		587.350	.250
15	021	COMMON BANDED COAL		588.000	.650
		* BED:KEN 10			
	100	SH (UNDIF)		594.400	6.400
17	034	BONE		594.900	.500
		* BED:KEN 20			
18	021	COMMON BANDED COAL		596.800	1.900
		* BED:KEN 20			
19	300	SDY SH		602.000	5.200
20	500	SS		642.500	40.500
21	034	BONE		644.500	2.000
22	100	SH (UNDIF)		646.000	1.500
23	021	COMMON BANDED COAL		647.000	1.000
24	300	SDY SH		655.000	8.000
25	500	SS		673.000	18.000
26	100	SH (UNDIF)		707.000	34.000
27	021	COMMON BANDED COAL		708.000	1.000
		* BED:ALY 10 ALY 10			
28	100	SH (UNDIF)		714.000	6.000
29	300	SDY SH		724.000	10.000
30	500	SS		737.500	13.500
31	021	COMMON BANDED COAL		740.000	2.500
		* BED:ALY 20 ALY 20			
32	100	SH (UNDIF)		741.000	1.000
33	034	BONE		741.500	.500
34	300	SDY SH		756.000	14.500
35	100	SH (UNDIF)		786.000	30.000
36	300	SDY SH		805.500	19.500
		COMMON BANDED COAL		807.000	1.500
		* BED:RVN 20 RVN 20			
38	300	SDY SH		826.000	19.000
39	500	SS		846.000	20.000
40	100	SH (UNDIF)		857.000	11.000
41	021	COMMON BANDED COAL		857.500	.500

AGE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM: IDI092886-000-3.00

WELL: 1 [VASSN] 1 [UW] 1 2 1: 24(00.) ID= 166

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
41	300	SDY SH		866.000	8.500
43	100	SH (UNDIF)		923.000	57.000
44	021	COMMON BANDED COAL		925.000	2.000
		* BED:JAW 10 JAW 10			
45	100	SH (UNDIF)		932.000	7.000
46	300	SDY SH		957.000	25.000
47	100	SH (UNDIF)		966.200	9.200
48	021	COMMON BANDED COAL		968.200	2.000
		* BED:JAW 20 JAW 20			
49	100	SH (UNDIF)		980.000	11.800
50	560	HARD SS		987.000	7.000
51	500	SS		1014.000	27.000
52	300	SDY SH		1032.500	18.500
53	021	COMMON BANDED COAL		1033.500	1.000
		* BED:TIL 20 TIL 20			
54	300	SDY SH		1044.500	11.000
55	021	COMMON BANDED COAL		1045.500	1.000
		* BED:TIL 30 TIL 30			
57	100	SH (UNDIF)		1049.000	3.500
	300	SDY SH		1055.000	6.000
58	300	SDY SH		1140.500	85.500
59	021	COMMON BANDED COAL		1141.500	1.000
		* BED:USB 10 USB 10			
60	100	SH (UNDIF)		1145.000	3.500
61	300	SDY SH		1150.000	5.000
62	500	SS		1160.000	10.000
63	300	SDY SH		1176.000	16.000
64	500	SS		1188.000	12.000
65	300	SDY SH		1192.000	4.000
66	500	SS		1196.000	4.000
67	100	SH (UNDIF)		1199.000	3.000
68	300	SDY SH		1215.000	16.000
69	560	HARD SS		1269.000	54.000
70	550	XTLIZED SS		1330.000	61.000
71	100	SH (UNDIF)		1374.000	44.000
72	021	COMMON BANDED COAL		1375.500	1.500
		* BED:MSB 10 MSB 10			
73	300	SDY SH		1402.500	27.000
74	037	BONE W/SH LAYERS		1405.000	2.500
		* BED:MSB 20 MSB 20			
75	100	SH (UNDIF)		1408.000	3.000
76	300	SDY SH		1422.000	14.000
77	500	SS		1438.000	16.000
78	300	SDY SH		1483.000	45.000
		SH (UNDIF)		1496.500	13.500
80	021	COMMON BANDED COAL		1497.500	1.000
		* BED:UHP 10 UHP 10			
81	500	SS		1518.500	21.000
82	100	SH (UNDIF)		1522.500	4.000
83	021	COMMON BANDED COAL		1524.500	2.000

43E) 4 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH THICKNESS DATA IN FEET

SERIAL NUM:101947882-003-7.00

([[VNSMT] [V4] [2 1: 24000.] ID= 166

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
84	100	SH (UNDIF)		1548.000	21.500
85	300	SDY SH		1550.000	4.000
86	021	COMMON BANDED COAL		1551.000	1.000
		† BED:MHP 10			
87	034	BONE		1551.500	.500
		† BED:MHP 10			
88	100	SH (UNDIF)		1573.000	21.500
89	300	SDY SH		1584.000	11.000
90	500	SS		1621.000	37.000
91	300	SDY SH		1643.000	22.000
92	500	SS		1653.000	10.000
93	300	SDY SH		1658.000	5.000
94	500	SS		1665.500	7.500
95	300	SDY SH		1677.000	11.500
96	503	SS W/SH STKS		1717.000	40.000
97	021	COMMON BANDED COAL		1718.000	1.000
		† BED:LHP 10 LHP 10			
98	100	SH (UNDIF)		1729.300	11.300
99	021	COMMON BANDED COAL		1729.900	.600
		† BED:LHP 20			
100	100	SH (UNDIF)		1730.300	.400
101	021	COMMON BANDED COAL		1731.200	.900
		† BED:LHP 20			
102	300	SDY SH		1763.000	31.800
103	500	SS		1783.000	30.000
104	100	SH (UNDIF)		1796.700	3.700
105	034	BONE		1796.950	.250
		† BED:PC9 10			
106	100	SH (UNDIF)		1797.100	.150
107	021	COMMON BANDED COAL		1798.200	1.100
108	100	SH (UNDIF)		1798.500	.300
109	021	COMMON BANDED COAL		1799.800	1.300
		† BED:PC9 10			
110	100	SH (UNDIF)		1834.000	34.200
111	021	COMMON BANDED COAL		1835.000	1.000
		† BED:PC9 20 PC9 20			
112	300	SDY SH		1874.000	39.000
113	300	SDY SH		1910.000	36.000
114	100	SH (UNDIF)		1914.000	4.000
115	300	SDY SH		1931.000	17.000
116	503	SS W/SH STKS		1947.000	16.000
117	550	XTLIZED SS		2033.000	86.000
118	560	HARD SS		2036.000	3.000
119	550	XTLIZED SS		2055.000	19.000
		HARD SS		2086.000	31.000
121	550	XTLIZED SS		2134.000	48.000
122	500	SS		2144.000	10.000
123	100	SH (UNDIF)		2150.200	6.200
124	021	COMMON BANDED COAL		2154.200	4.000
		† BED:PC4 10			

AGE: 5 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH THICKNESS DATA IN FEET

SERIAL NUM:101092686-000-1.00

[] (VNET [] (V6) [] (1: 24000.) ID= 156

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
125	100	SH (UNDIF)		2154.900	.600
126	034	BONE		2155.100	.300
		* BED:PC4 10			
127	300	SDY SH		2183.000	27.900
128	100	SH (UNDIF)		2189.000	6.000
129	021	COMMON BANDED COAL		2189.900	.900
		* BED:PC3 10 PC3 10			
130	034	BONE		2190.100	.200
131	021	COMMON BANDED COAL		2190.700	.600
		* BED:PC3 20			
132	034	BONE		2191.300	.600
133	021	COMMON BANDED COAL		2193.900	2.600
		* BED:PC3 20			
134	034	BONE		2194.200	.300
		* BED:PC3 30 PC3 30			
135	300	SDY SH		2219.000	24.800
136	100	SH (UNDIF)		2224.000	5.000
137	300	SDY SH		2242.000	38.000

T4B
EXHIBIT A

HOLE NO = 10 CBM T4B

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2166

N-COOR = 332372 E-COOR = 950064

STRATA ELEV (TOP)	STRATA FROM	DEPTH TO	STRATA THICK	SEAM CODE	COMMENTS
2043.79	121.90	122.60	.70	COAL	
2043.09	122.60	171.10	48.50		
1994.59	171.10	172.70	1.60	HG1	MINE PILLAR?
1992.99	172.70	270.00	97.30		
1895.69	270.00	271.30	1.30	SD1	
1894.39	271.30	313.20	41.90		
1852.49	313.20	314.10	.90	SD2	
1851.59	314.10	315.40	1.30		
1850.29	315.40	316.10	.70	SD3	
1849.59	316.10	355.10	39.00		
1810.59	355.10	355.80	.70	UB1	
1809.89	355.80	439.60	83.80		
1726.09	439.60	439.70	.10	LB1	
1725.99	439.70	505.00	65.30		
1660.69	505.00	505.40	.40	LB2	
1660.29	505.40	622.10	116.70		
1543.59	622.10	622.60	.50	KN1	WITHIN 1477 FT OF OLD WORKS.
1543.09	622.60	644.10	21.50		
1521.59	644.10	645.90	1.80	KN2	
1519.79	645.90	755.60	109.70		
1410.09	755.60	755.80	.20	AL1	
1409.89	755.80	788.70	32.90		
1376.99	788.70	789.90	1.20	AL2	
1375.79	789.90	861.50	71.60		
1304.19	861.50	862.70	1.20	RA2	
1302.99	862.70	900.10	37.40		
1265.59	900.10	900.80	.70	RA3	
1264.89	900.80	961.90	61.10		
1203.79	961.90	962.70	.80	JB1	
1202.99	962.70	1006.50	43.80		
1159.19	1006.50	1008.00	1.50	JB3	
1157.69	1008.00	1079.00	71.00		
1086.69	1079.00	1079.70	.70	T1	
1085.99	1079.70	1092.90	13.20		
1072.79	1092.90	1093.70	.80	TI	
1071.99	1093.70	1187.40	93.70		
978.29	1187.40	1188.10	.70	*US1	
977.59	1188.10	1417.90	229.80		
747.79	1417.90	1418.60	.70	*SE2	
747.09	1418.60	1539.60	121.00		
626.09	1539.60	1540.20	.60	*UH1	
625.49	1540.20	1560.20	20.00		
605.49	1560.20	1561.40	1.20	*UH2	
604.29	1561.40	1583.00	21.60		
582.69	1583.00	1583.80	.80	*MH1	
581.89	1583.80	1757.10	173.30		
408.59	1757.10	1757.70	.60	*LH1	
407.99	1757.70	1778.80	21.10		
386.89	1778.80	1780.10	1.30	*LH3	
385.59	1780.10	1842.10	62.00		

323.59	1842.10	1844.70	2.60	T4B	
320.99	1844.70	1877.90	33.20	*P91	
287.79	1877.90	1878.80	.90		
286.89	1878.80	2179.70	300.90	*P81	
-14.01	2179.70	2181.80	2.10	*P41	
-16.11	2181.80	2182.80	1.00	*P42	
-17.11	2182.80	2234.00	51.20		
-68.31	2234.00	2239.20	5.20	*P3	WITHIN 3000 FT
-73.51	2239.20	2282.30	43.10		FRAC AZIMUTH.
-116.61	2282.30	2284.00	1.70	*P21	
-118.31	2284.00	2495.00	211.00		

BOTTOM HOLE

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO GAS WELL'S
 PROXIMITY TO SHORT RIDGE BRANCH.
 GAMMA-CALIPER LOG FROM 0 TO 254.70
 GAMMA-DENSITY LOG FROM 254.70 TO TD.
 NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

PAGE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:IC1092686-007-3.00

S=[] [VNSNT] [V0] [2 1: 24000.] ID= 167

IDENTIFICATION SECTION

1. QUAD NAME: VNSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 167
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
5. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: CB-T5
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DDH#: CB-T5

COORDINATES OF HOLE OR SECTION

- 10.1 UTM ZONE (- FOR SOUTH):
- 10.2 UTM NORTHING:
- 10.3 UTM EASTING:
- 15.1 COMPANY GRID N/S: 24269.24
- 15.2 COMPANY GRID E/W: 17465.70

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCHANAN
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE: GARDEN
20. GROUND LOCATION DESCRIPTION: SHORTRIDGE BRANCH

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1553.00 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: BLS
24. YEAR DRILLED OR MEASURED: 1990
25. TOTAL DEPTH OF DRILL HOLE: F 1571.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: TIL
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC3
- 29.1 KIND OF RECORD: E
- 29.2 METHOD OF LITHO DESCRIPTION: 1[CODE]
- 30.1 UNITS OF MEASUREMENT: 2[FT]
- 30.2 METHOD(S) OF MEASUREMENT: 1[THK]

2: OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:101070285-003-3.00

1 2 [VMSNT] 1 [VAF] 1 2 1: 24000.1 ID= 167

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		385.000	385.000
2	100	SH (UNDIF)		388.000	3.000
3	021	COMMON BANDED COAL		389.000	1.000
		1 BED:TIL 20 TIL 20			
4	300	SDY SH		401.000	12.000
5	500	SS		432.000	31.000
6	300	SDY SH		446.000	14.000
7	100	SH (UNDIF)		461.000	15.000
8	300	SDY SH		479.000	18.000
9	100	SH (UNDIF)		485.000	6.000
10	300	SDY SH		488.000	3.000
11	500	SS		507.000	19.000
12	021	COMMON BANDED COAL		508.000	1.000
		1 BED:USB 10 USB 10			
13	100	SH (UNDIF)		526.000	18.000
14	300	SDY SH		533.000	7.000
15	300	SDY SH		536.000	3.000
16	500	SS		595.000	59.000
	750	XTLIZED SS		632.000	37.000
	800	HARD SS		673.000	41.000
19	100	SH (UNDIF)		700.000	27.000
20	300	SDY SH		728.000	28.000
21	021	COMMON BANDED COAL		729.200	1.200
		1 BED:MSB 10 MSB 10			
22	300	SDY SH		743.000	13.800
23	100	SH (UNDIF)		758.500	15.500
24	034	BONE		759.000	.500
		1 BED:MSB 20			
25	021	COMMON BANDED COAL		759.500	.500
		1 BED:MSB 20			
26	300	SDY SH		771.000	11.500
27	500	SS		795.000	24.000
28	300	SDY SH		836.000	41.000
29	100	SH (UNDIF)		848.000	12.000
30	021	COMMON BANDED COAL		849.000	1.000
		1 BED:UHP 10 UHP 10			
31	100	SH (UNDIF)		853.000	4.000
32	500	SS		872.000	19.000
33	100	SH (UNDIF)		876.000	4.000
34	021	COMMON BANDED COAL		876.750	.750
		1 BED:UHP 20			
35	034	BONE		877.000	.250
36	021	COMMON BANDED COAL		878.000	1.000
		1 BED:UHP 20			
37	0	SH (UNDIF)		883.000	5.000
38	300	SDY SH		896.000	13.000
39	500	SS		908.000	12.000
40	034	BONE		908.500	.500
41	100	SH (UNDIF)		913.500	5.000
42	021	COMMON BANDED COAL		915.200	1.700

PHSE: 1 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:101050234-000-2.00

W=[] [INSET] [VAL: 2 1] 24000.] 10= 1e7

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	100	SH (UNDIF)		919.000	3.800
44	034	BONE		919.500	.500
45	300	SDY SH		955.000	33.500
46	500	SS		963.000	10.000
47	300	SDY SH		1012.000	49.000
48	021	COMMON BANDED COAL		1013.000	1.000
		† BED:WRC 10 WRC 10			
49	103	SH w/COAL STRS		1015.000	2.000
50	503	SE w/SH STRS		1028.000	13.000
51	300	SDY SH		1032.000	4.000
52	100	SH (UNDIF)		1039.000	7.000
53	021	COMMON BANDED COAL		1040.200	1.200
		† BED:WRC 20 WRC 20			
54	100	SH (UNDIF)		1043.000	2.800
55	500	SS		1066.900	23.900
56	100	SH (UNDIF)		1067.600	.700
57	034	BONE		1068.100	.500
		† BED:LHP 10			
	021	COMMON BANDED COAL		1068.900	.800
	34	BONE		1069.200	.300
60	021	COMMON BANDED COAL		1069.600	.400
61	100	SH (UNDIF)		1069.750	.150
62	034	BONE		1070.100	.350
		† BED:LHP 10			
63	100	SH (UNDIF)		1077.700	7.600
64	034	BONE		1077.900	.200
		† BED:LHP 20			
65	021	COMMON BANDED COAL		1078.500	.600
66	034	BONE		1078.700	.200
67	021	COMMON BANDED COAL		1079.800	1.100
		† BED:LHP 20			
68	300	SDY SH		1081.000	1.200
69	500	SS		1087.000	6.000
70	300	SDY SH		1094.000	7.000
71	500	SS		1124.000	30.000
72	300	SDY SH		1149.400	25.400
73	021	COMMON BANDED COAL		1152.300	2.900
		† BED:PC9 10 PC9 10			
74	300	SDY SH		1168.000	15.700
75	300	SDY SH		1179.000	11.000
76	021	COMMON BANDED COAL		1180.500	1.500
		† BED:PC9 20 PC9 20			
77	100	SH (UNDIF)		1207.000	26.500
78	300	SDY SH		1243.000	36.000
		HARD SS		1256.000	13.000
80	300	SDY SH		1260.000	4.000
81	100	SH (UNDIF)		1265.000	5.000
82	300	SDY SH		1274.000	9.000
83	300	SDY SH		1284.000	10.000
84	550	XTLIZED SS		1390.000	106.000

AGE: 4 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM: 101092686-013-3.00

[] [VNSNT] [] [VA] [] 2 1: 24(00.) II= 167

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
85	500	HARD SS		1433.000	43.000
86	100	SH (UNDIF)		1438.000	5.000
87	034	BONE		1438.300	.300
		* BED:PC5 10			
88	100	SH (UNDIF)		1438.700	.400
89	021	COMMON BANDED COAL		1439.600	.900
90	103	SH W/COAL STKS		1440.100	.500
91	100	SH (UNDIF)		1440.600	.500
92	022	COAL W/BONE LAYERS		1441.300	.700
93	021	COMMON BANDED COAL		1443.150	1.850
94	034	BONE		1443.400	.250
		* BED:PC5 10			
95	100	SH (UNDIF)		1448.000	4.600
96	500	SS		1493.000	45.000
97	300	SDY SH		1500.000	7.000
98	100	SH (UNDIF)		1507.700	7.700
99	021	COMMON BANDED COAL		1508.050	.350
		* BED:PC4 10			
100	100	SH (UNDIF)		1508.300	.250
101	021	COMMON BANDED COAL		1514.400	6.100
102	100	SH (UNDIF)		1515.600	1.200
103	021	COMMON BANDED COAL		1516.000	.400
		* BED:PC4 10			
104	300	SDY SH		1523.000	7.000
105	500	SS		1530.000	7.000
106	300	SDY SH		1532.000	2.000
107	503	SS W/SH STKS		1534.700	2.700
108	021	COMMON BANDED COAL		1535.400	.700
		* BED:PC3 10 PC3 10			
109	100	SH (UNDIF)		1536.100	.700
110	034	BONE		1536.300	.200
		* BED:PC3 20			
111	021	COMMON BANDED COAL		1537.200	.900
112	100	SH (UNDIF)		1537.500	.300
113	021	COMMON BANDED COAL		1537.850	.350
		* BED:PC3 20			
114	100	SH (UNDIF)		1540.000	2.150
115	300	SDY SH		1549.000	9.000
116	500	SS		1556.000	7.000
117	300	SDY SH		1559.000	3.000
118	300	SDY SH		1571.000	12.000

T5A
EXHIBIT A

HOLE NO = 10 CBM T5A

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2072

N-COOR = 332376 E-COOR = 952403

STRATA ELEV (TOP)	STRATA FROM	DEPTH TO	STRATA THICK	SEAM CODE	COMMENTS
2045.99	25.90	26.90	1.00	HG1	
2044.99	26.90	114.40	87.50		
1957.49	114.40	116.00	1.60	SD1	
1955.89	116.00	155.90	39.90		
1915.99	155.90	157.70	1.80	SD2	
1914.19	157.70	160.00	2.30		
1911.89	160.00	161.00	1.00	SD3	
1910.89	161.00	285.00	124.00		
1786.89	285.00	285.30	.30	LB1	
1786.59	285.30	350.80	65.50		
1721.09	350.80	351.00	.20	LB2	
1720.89	351.00	488.20	137.20		
1583.69	488.20	488.50	.30	KN1	
1583.39	488.50	489.20	.70		
1582.69	489.20	490.80	1.60	KN2	
1581.09	490.80	598.10	107.30		
1473.79	598.10	598.50	.40	AL1	
1473.39	598.50	631.00	32.50		
1440.89	631.00	632.10	1.10	AL2	
1439.79	632.10	698.00	65.90		
1373.89	698.00	699.00	1.00	RA2	
1372.89	699.00	758.70	59.70		
1313.19	758.70	758.90	.20	RA3	
1312.99	758.90	826.60	67.70		
1245.29	826.60	827.50	.90	JB1	
1244.39	827.50	870.90	43.40		
1200.99	870.90	872.70	1.80	JB3	
1199.19	872.70	934.90	62.20		
1136.99	934.90	935.30	.40	T1	
1136.59	935.30	951.50	16.20		
1120.39	951.50	952.20	.70	TI	
1119.69	952.20	1041.40	89.20		
1030.49	1041.40	1041.60	.20	US1	
1030.29	1041.60	1277.20	235.60		
794.69	1277.20	1278.00	.80	*SE2	
793.89	1278.00	1408.90	130.90		
662.99	1408.90	1409.80	.90	*UH1	
662.09	1409.80	1424.90	15.10		
646.99	1424.90	1426.10	1.20	*UH2	
645.79	1426.10	1455.20	29.10		
616.69	1455.20	1456.50	1.30	*MH1	
615.39	1456.50	1593.70	137.20		
478.19	1593.70	1593.90	.20	*P10	
477.99	1593.90	1615.50	21.60		
456.39	1615.50	1615.90	.40	*LH1	
455.99	1615.90	1630.70	14.80		
441.19	1630.70	1632.10	1.40	*LH2	
439.79	1632.10	1689.00	56.90		
382.89	1689.00	1692.00	3.00	*P91	
379.89	1692.00	1990.90	298.90		

80.99	1990.90	1991.00	.10	T5A
80.89	1991.00	1992.30	1.30	*P51
79.59	1992.30	1994.10	1.80	
77.79	1994.10	2038.10	44.00	*P52
33.79	2038.10	2039.60	1.50	*P41
32.29	2039.60	2041.90	2.30	*P42
29.99	2041.90	2085.10	43.20	
-13.21	2085.10	2089.80	4.70	*P3
-17.91	2089.80	2350.00	260.20	

BOTTOM HOLE

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO GAS
WELL'S PROXIMITY TO SHORTRIDGE BRANCH.
GAMMA-CALIPER LOG FROM 0 TO 212.00
GAMMA-DENSITY LOG FROM 212.00 TO TD.
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Exhibit A

Well Name: 11 CBM U3A

SURFACE ELEV: 2235.44 EASTING: 949171.46 NORTHING: 329559.51

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
HG1	220.50	224.00	2014.94	3.50	MINED OUT
	224.00	332.00	2011.44	108.00	
SD1	332.00	334.20	1903.44	2.20	
	334.20	365.80	1901.24	31.60	
COAL	365.80	366.00	1869.64	0.20	
	366.00	368.00	1869.44	2.00	
SD2	368.00	369.50	1867.44	1.50	
	369.50	371.60	1865.94	2.10	
SD3	371.60	372.50	1863.84	0.90	
	372.50	486.80	1862.94	114.30	
LB1	486.80	486.90	1748.64	0.10	
	486.90	553.80	1748.54	66.90	
LB2	553.80	553.90	1681.64	0.10	
	553.90	673.60	1681.54	119.70	
KN1	673.60	673.80	1561.84	0.20	
	673.80	700.90	1561.64	27.10	
KN2	700.90	702.00	1534.54	1.10	
	702.00	804.00	1533.44	102.00	
AL1	804.00	804.10	1431.44	0.10	
	804.10	842.90	1431.34	38.80	
AL2	842.90	844.20	1392.54	1.30	
	844.20	911.50	1391.24	67.30	
RA2	911.50	912.60	1323.94	1.10	
	912.60	931.00	1322.84	18.40	
RA3	931.00	931.20	1304.44	0.20	
	931.20	1021.80	1304.24	90.60	
JB1	1021.80	1022.10	1213.64	0.30	
	1022.10	1062.50	1213.34	40.40	
JB3	1062.50	1063.90	1172.94	1.40	
	1063.90	1149.10	1171.54	85.20	
T1	1149.10	1149.80	1086.34	0.70	
	1149.80	1160.00	1085.64	10.20	
TI	1160.00	1160.50	1075.44	0.50	
	1160.50	1256.40	1074.94	95.90	
US1	1256.40	1256.60	979.04	0.20	
	1256.60	1284.00	978.84	27.40	
COAL	1284.00	1284.20	951.44	0.20	
	1284.20	1500.50	951.24	216.30	
SE2	1500.50	1501.50	734.94	1.00	
	1501.50	1614.90	733.94	113.40	
UH1	1614.90	1615.60	620.54	0.70	
	1615.60	1640.00	619.84	24.40	
UH2	1640.00	1640.90	595.44	0.90	
	1640.90	1663.00	594.54	22.10	
MH1	1663.00	1663.90	572.44	0.90	
	1663.90	1865.10	571.54	201.20	
LH3	1865.10	1866.70	370.34	1.60	
	1866.70	1916.65	368.74	49.95	

GAMMA-CALIPER LOG FROM 0 TO 265.00

GAMMA-DENSITY LOG FROM 265.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\U3A.CMP

DATE: 11/15/11

Exhibit A

Well Name: 11 CBM U3B
 SURFACE ELEV: 2228.95 EASTING: 949379.51 NORTHING:
 329861.88

SEAM REMARKS	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)

COAL	167.10	168.10	2061.85	1.00
	168.10	217.00	2060.85	48.90
HG1	217.00	219.40	2011.95	2.40
MINED OUT	219.40	330.00	2009.55	110.60
SD1	330.00	332.00	1898.95	2.00
	332.00	361.90	1896.95	29.90
SD2	361.90	363.70	1867.05	1.80
	363.70	364.90	1865.25	1.20
SD3	364.90	365.80	1864.05	0.90
	365.80	399.20	1863.15	33.40
UB1	399.20	400.00	1829.75	0.80
	400.00	481.00	1828.95	81.00
LB1	481.00	481.70	1747.95	0.70
	481.70	669.90	1747.25	188.20
KN1	669.90	670.10	1559.05	0.20
	670.10	692.10	1558.85	22.00
KN2	692.10	694.00	1536.85	1.90
	694.00	797.80	1534.95	103.80
AL1	797.80	797.90	1431.15	0.10
	797.90	834.80	1431.05	36.90
AL2	834.80	836.00	1394.15	1.20
	836.00	901.40	1392.95	65.40
RA2	901.40	902.10	1327.55	0.70
	902.10	1012.60	1326.85	110.50
JB1	1012.60	1013.10	1216.35	0.50
	1013.10	1055.10	1215.85	42.00
JB3	1055.10	1056.60	1173.85	1.50
	1056.60	1134.00	1172.35	77.40
T1	1134.00	1134.30	1094.95	0.30
	1134.30	1149.80	1094.65	15.50
TI	1149.80	1150.10	1079.15	0.30
	1150.10	1243.20	1078.85	93.10
US1	1243.20	1243.30	985.75	0.10
	1243.30	1418.90	985.65	175.60
GC2	1418.90	1420.20	810.05	1.30
	1420.20	1486.50	808.75	66.30
SE2	1486.50	1487.30	742.45	0.80
	1487.30	1509.50	741.65	22.20

SE3	1509.50	1509.60	719.45	0.10
	1509.60	1602.00	719.35	92.40
UH1	1602.00	1602.90	626.95	0.90
	1602.90	1653.20	626.05	50.30
MH1	1653.20	1654.00	575.75	0.80
	1654.00	1851.50	574.95	197.50
LH3	1851.50	1853.00	377.45	1.50
	1853.00	1920.50	375.95	67.50
P91	1920.50	1922.60	308.45	2.10
	1922.60	1959.80	306.35	37.20
P81	1959.80	1960.20	269.15	0.40
	1960.20	2204.10	268.75	243.90
P62	2204.10	2204.20	24.85	0.10
	2204.20	2240.20	24.75	36.00
P51	2240.20	2242.00	-11.25	1.80
	2242.00	2293.90	-13.05	51.90
*P41	2293.90	2296.50	-64.95	2.60
*P42	2296.50	2300.20	-67.55	3.70
	2300.20	2308.90	-71.25	8.70
P3	2308.90	2314.20	-79.95	5.30
	2314.20	2347.80	-85.25	33.60
COAL	2347.80	2347.90	-118.85	0.10
	2347.90	2387.90	-118.95	40.00
P21	2387.90	2389.40	-158.95	1.50
	2389.40	2515.36	-160.45	125.96

GAMMA-CALIPER LOG FROM 0 TO 763.70

GAMMA-DENSITY LOG FROM 763.70 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: C:\COMPLETE\U3B.CMP

DATE: 10/31/11

Exhibit A

Well Name: 05-CNX-V-3

SURFACE ELEV: 2027.42 EASTING: 948952.22 NORTHING: 328357.28

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
SD1	121.60	123.90	1905.82	2.30	
	123.90	147.00	1903.52	23.10	
SD2	147.00	148.50	1880.42	1.50	
	148.50	149.30	1878.92	0.80	
SD2	149.30	150.10	1878.12	0.80	
	150.10	183.40	1877.32	33.30	
UB2	183.40	184.00	1844.02	0.60	
	184.00	269.20	1843.42	85.20	
LB1	269.20	269.60	1758.22	0.40	
	269.60	337.10	1757.82	67.50	
LB2	337.10	337.40	1690.32	0.30	
	337.40	461.50	1690.02	124.10	
KN1	461.50	462.00	1565.92	0.50	
	462.00	486.10	1565.42	24.10	
KN2	486.10	487.90	1541.32	1.80	
	487.90	592.10	1539.52	104.20	
AL1	592.10	592.40	1435.32	0.30	
	592.40	629.70	1435.02	37.30	
AL2	629.70	631.60	1397.72	1.90	
	631.60	704.50	1395.82	72.90	
RA2	704.50	706.00	1322.92	1.50	
	706.00	726.00	1321.42	20.00	
RA3	726.00	726.70	1301.42	0.70	
	726.70	809.50	1300.72	82.80	
JB1	809.50	810.00	1217.92	0.50	
	810.00	841.60	1217.42	31.60	
JB3	841.60	843.20	1185.82	1.60	
	843.20	924.80	1184.22	81.60	
T1	924.80	925.20	1102.62	0.40	
	925.20	940.30	1102.22	15.10	
TI	940.30	940.80	1087.12	0.50	
	940.80	1039.95	1086.62	99.15	
*US1	1039.95	1040.20	987.47	0.25	
	1040.20	1304.90	987.22	264.70	
*SE2	1304.90	1305.15	722.52	0.25	
	1305.15	1307.20	722.27	2.05	
*SE3	1307.20	1307.40	720.22	0.20	
	1307.40	1404.10	720.02	96.70	
*UH1	1404.10	1405.60	623.32	1.50	
	1405.60	1431.90	621.82	26.30	
*UH2	1431.90	1433.00	595.52	1.10	
	1433.00	1458.00	594.42	25.00	
*MH1	1458.00	1458.80	569.42	0.80	
	1458.80	1662.20	568.62	203.40	
*LH3	1662.20	1663.90	365.22	1.70	
	1663.90	1721.80	363.52	57.90	
*P91	1721.80	1723.00	305.62	1.20	
*P92	1723.00	1724.40	304.42	1.40	
	1724.40	1760.80	303.02	36.40	
*P81	1760.80	1761.70	266.62	0.90	
	1761.70	2019.50	265.72	257.80	
*P51	2019.50	2022.00	7.92	2.50	
	2022.00	2084.96	5.42	62.96	
*P41	2084.96	2088.31	-57.54	3.35	
*P42	2088.31	2091.11	-60.89	2.80	
	2091.11	2102.40	-63.69	11.29	
*P43	2102.40	2103.00	-74.98	0.60	
	2103.00	2119.05	-75.58	16.05	

*P31	2119.05	2120.40	-91.63	1.35
*P32	2120.40	2122.75	-92.98	2.35
	2122.75	2123.30	-95.33	0.55
*P33	2123.30	2124.80	-95.88	1.50
*P34	2124.80	2125.35	-97.38	0.55
	2125.35	2158.15	-97.93	32.80
*P21	2158.15	2158.50	-130.73	0.35
	2158.50	2167.60	-131.08	9.10
*P22	2167.60	2168.55	-140.18	0.95
	2168.55	2197.30	-141.13	28.75
*P01	2197.30	2198.70	-169.88	1.40
	2198.70	2390.00	-171.28	191.30

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
 WELL'S PROXIMITY TO LOONEY FORK AND WATER WELL V2-3.
 GAMMA-CALIPER LOG FROM 0 TO 222.00
 GAMMA-DENSITY LOG FROM 222.00 TO TD.

FILE: C:\VP\GAS\V3.CMP

DATE: 11/07/05

DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: CNX

HOLE #: V-4

LOCATION:

DRILL RIG #: 17

DATE STARTED: 10-11-05

DATED COMPLETED: 10-17-05

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	12.65	12.65	OVERBURDEN	
12.65	60	47.35	SAND	
60	90	30	SAND/COAL/SANDY SHALE /COAL/SANDY SHALE	
90	120	30	SANDY SHALE/COAL/SANDY SHALE	
120	150	30	SANDY SHALE	
150	180	30	SANDY SHALE/SAND	
180	210	30	SANDY SHALE/COAL/SAND	
210	240	30	SAND/SANDY SHALE/COAL	
240	270	30	SAND/COAL/SANDY SHALE	
270	300	30	SAND/SANDY SHALE	
300	330	30	SAND/SANDY SHALE/SAND	
330	355	25	SAND/COAL/SANDY SHALE	
355	385	30	SANDY SHALE/SAND	
385	415	30	SAND/COAL/SANDY SHALE	
415	445	30	SANDY SHALE/SAND/SANDY SHALE	
445	475	30	SANDY SHALE/SHALE/SANDY SHALE	
475	505	30	SANDY SHALE/COAL/SANDY SHALE	
505	535	30	SANDY SHALE/SAND	
535	565	30	SANDY SHALE	
565	595	30	COAL/SANDY SHALE/COAL/SANDY SHALE	
595	625	30	SAND/SHALE/COAL	
625	655	30	SAND/SANDY SHALE	
655	685	30	SHALE	
685	715	30	SHALE/SANDY SHALE/COAL/SANDY SHALE	
715	775	60	SANDY SHALE	
775	805	30	SANDY SHALE/SAND/SANDY SHALE	
805	835	30	SANDY SHALE/COAL/SANDY SHALE	
835	865	30	SAND/SANDY SHALE/COAL/SANDY SHALE	
865	895	30	SANDY SHALE	
895	925	30	SANDY SHALE/COAL	
925	955	30	SANDY SHALE	
955	985	30	SAND/SANDY SHALE	
985	1015	30	SANDY SHALE/SAND/SHALE	
1015	1045	30	SHALE/COAL	
1045	1075	30	SANDY SHALE	
1075	1105	30	SHALE/COAL/SANDY SHALE/SAND	
1105	1135	30	SAND/SANDY SHALE	
1135	1165	30	SANDY SHALE/SHALE	
1165	1195	30	SANDY SHALE/COAL/SANDY SHALE	
1195	1225	30	SANDY SHALE	
1225	1255	30	SANDY SHALE/SHALE	
1255	1315	60	SHALE/COAL/SANDY SHALE	
1315	1345	30	SANDY SHALE/SAND	
1345	1405	60	SAND	
1405	1435	30	SAND/SANDY SHALE/SAND	
1435	1465	30	SAND STONE	
1465	1495	30	SAND/SANDY SHALE/SAND	
1495	1525	30	SAND/SANDY SHALE/COAL	

1525	1555	30	SAND/SANDY SHALE/SAND
1555	1585	30	SAND/SANDY SHALE
1585	1615	30	SANDY SHALE/SAND
1615	1645	30	SAND/SANDY SHALE/COAL
1645	1675	30	SAND/SANDY SHALE
1675	1705	30	SAND STONE
1705	1735	30	SANDY SHALE/SAND
1735	1765	30	COAL/SAND/SANDY SHALE
1765	1795	30	SANDY SHALE/SAND
1795	1825	30	SAND/SANDY SHALE/SAND
1825	1855	30	SAND/SANDY SHALE
1855	1885	30	SAND/SANDY SHALE/COAL
1885	1915	30	SAND/SANDY SHALE
1915	1945	30	SANDY SHALE/COAL
1945	2005	60	SANDY SHALE
2005	2035	30	SANDY SHALE/SAND
2035	2155	120	SAND STONE
2155	2185	30	SANDY SHALE/SAND
2185	2215	30	SANDY SHALE
2215	2245	30	SANDY SHALE/SAND/SANDY SHALE
2245	2275	30	SANDY SHALE/COAL/SANDY SHALE
2275	2305	30	SANDY SHALE/SHALE/SAND
2305	2335	30	SANDY SHALE/SAND
2335	2345	10	SAND/SANDY SHALE
2345	2355	10	COAL P-3
2355	2365	10	SANDY SHALE/COAL/SANDY SHALE
2365	2395	30	SANDY SHALE/SAND
2395	2485	90	SANDY SHALE/SAND/SANDY SHALE
2485	2515	30	SANDY SHALE/SAND
2515	2545	30	SAND/SANDY SHALE/SAND
2545	2575	30	SAND/SANDY SHALE
2575	2605	30	SANDY SHALE/SAND/RED ROCK

2605.00 FT. TOTAL DEPTH
12.65 FT. OF 13 3/8" CASING
310.10 FT. OF 7" CASING
2417.60 FT. OF 4 1/2" CASING

Exhibit A

Well Name: 07 CBM V8
SURFACE ELEV: 1811.93 EASTING: 957237.00 NORTHING: 327352.45

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
AL2	150.00	151.90	1661.93	1.90	
	151.90	215.60	1660.03	63.70	
RA2	215.60	216.90	1596.33	1.30	
	216.90	351.10	1595.03	134.20	
JB1	351.10	352.00	1460.83	0.90	
	352.00	398.20	1459.93	46.20	
JB3	398.20	399.80	1413.73	1.60	
	399.80	486.10	1412.13	86.30	
T1	486.10	486.80	1325.83	0.70	
	486.80	491.70	1325.13	4.90	
TI	491.70	492.20	1320.23	0.50	
	492.20	728.10	1319.73	235.90	
GC2	728.10	729.50	1083.83	1.40	
	729.50	817.20	1082.43	87.70	
SE2	817.20	818.50	994.73	1.30	
	818.50	943.00	993.43	124.50	
*UH1	943.00	944.20	868.93	1.20	
	944.20	967.10	867.73	22.90	
*UH2	967.10	968.50	844.83	1.40	
	968.50	1006.00	843.43	37.50	
*MH1	1006.00	1007.30	805.93	1.30	
	1007.30	1100.00	804.63	92.70	
*P11	1100.00	1100.70	711.93	0.70	
	1100.70	1121.80	711.23	21.10	
*P10	1121.80	1122.30	690.13	0.50	
	1122.30	1170.80	689.63	48.50	
*LH3	1170.80	1172.50	641.13	1.70	
	1172.50	1242.60	639.43	70.10	
*COAL	1242.60	1243.10	569.33	0.50	
	1243.10	1249.00	568.83	5.90	
*P91	1249.00	1250.40	562.93	1.40	
	1250.40	1530.00	561.53	279.60	
*P51	1530.00	1535.00	281.93	5.00	
	1535.00	1580.20	276.93	45.20	
*P41	1580.20	1580.90	231.73	0.70	
	1580.90	1581.50	231.03	0.60	
*P42	1581.50	1581.90	230.43	0.40	
	1581.90	1634.10	230.03	52.20	
*P31	1634.10	1635.70	177.83	1.60	
*P32	1635.70	1636.70	176.23	1.00	
*P33	1636.70	1637.70	175.23	1.00	
*P34	1637.70	1639.10	174.23	1.40	
	1639.10	1880.00	172.83	240.90	

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
WELL'S PROXIMITY TO BALDWIN BRANCH.
GAMMA-CALIPER LOG FROM 0 TO 309.00
GAMMA-DENSITY LOG FROM 309.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
FILE: H:\JIMHAZ~1\PROJECTS\GAS\V8.CMP
DATE: 08/28/07

DRILLER'S LOG

Compiled by - GASCO

Geologic Age	Formation	General Lithology	Color	Depth		Thickness	Remarks
				Top	Bottom		
Pennsylvanian	Pocahontas	OVERBURDEN		0	10		
		SHALE		10	80		
		SANDY SHALE		80	170		
		SANDSTONE		170	275		
		COAL		275	276		
		SANDY SHALE		276	308		
		COAL		308	309		
		SANDY SHALE		309	380		
		COAL		380	381		
		SANDY SHALE		381	420		
		SANDY SHALE		420	425		
		SANDSTONE		425	470		
		SANDY SHALE		470	535		
		SANDSTONE		535	550		
		SANDY SHALE		550	565		
		SANDSTONE		565	610		
		COAL		610	611		
		SANDY SHALE		611	650		
		COAL		650	651		
		SANDY SHALE		651	737		
		SANDY SHALE		737	745		
		SANDSTONE		745	810		
		SANDY SHALE		810	818		
		SANDSTONE		818	980		
		COAL		980	981		
		SANDY SHALE		981	1095		
		SANDY SHALE		1095	1180		
		COAL		1180	1181		
		SANDSTONE		1181	1215		
		SANDY SHALE		1215	1280		
		SANDSTONE		1280	1340		
		SANDY SHALE		1340	1361		
		COAL		1361	1362		
		SANDY SHALE		1362	1375		
		SANDY SHALE		1375	1445		
		COAL		1445	1446		
		SANDY SHALE		1446	1585		
		SANDSTN & QUARTZ		1585	1720		
		COAL		1720	1721		
		SANDY SHALE		1721	1740		
		SANDSTONE		1740	1798		
		COAL		1798	1805		

Permittee: CONSOL INC. (Company)

By: *Paul H. Chung* (Signature)

U6B.CMP
Exhibit A

Well Name: 11 CBM U6B
SURFACE ELEV: 2159.58 EASTING: 954336.63 NORTHING: 330102.25

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
LB1	285.10	286.90	1874.48	1.80	
	286.90	469.10	1872.68	182.20	
KN1	469.10	470.00	1690.48	0.90	
	470.00	483.80	1689.58	13.80	
KN2	483.80	485.90	1675.78	2.10	
	485.90	592.00	1673.68	106.10	
AL1	592.00	592.70	1567.58	0.70	
	592.70	627.30	1566.88	34.60	
AL2	627.30	629.00	1532.28	1.70	
	629.00	666.00	1530.58	37.00	
RA1	666.00	666.60	1493.58	0.60	
	666.60	695.80	1492.98	29.20	
RA2	695.80	696.90	1463.78	1.10	
	696.90	831.40	1462.68	134.50	
JB1	831.40	833.10	1328.18	1.70	
	833.10	869.00	1326.48	35.90	
JB3	869.00	871.00	1290.58	2.00	
	871.00	941.90	1288.58	70.90	
T1	941.90	942.90	1217.68	1.00	
	942.90	955.50	1216.68	12.60	
TI	955.50	956.80	1204.08	1.30	
	956.80	1048.10	1202.78	91.30	
US1	1048.10	1048.90	1111.48	0.80	
	1048.90	1077.00	1110.68	28.10	
US2	1077.00	1077.50	1082.58	0.50	
	1077.50	1288.00	1082.08	210.50	
SE2	1288.00	1288.90	871.58	0.90	
	1288.90	1413.50	870.68	124.60	
UH1	1413.50	1414.90	746.08	1.40	
	1414.90	1436.90	744.68	22.00	
UH2	1436.90	1438.10	722.68	1.20	
	1438.10	1473.60	721.48	35.50	
MH1	1473.60	1474.70	685.98	1.10	
	1474.70	1637.30	684.88	162.60	
LH3	1637.30	1638.50	522.28	1.20	
	1638.50	1706.20	521.08	67.70	
P91	1706.20	1707.50	453.38	1.30	
P92	1707.50	1709.10	452.08	1.60	
	1709.10	1752.00	450.48	42.90	
P81	1752.00	1752.50	407.58	0.50	
	1752.50	1991.00	407.08	238.50	
P52	1991.00	1992.80	168.58	1.80	
	1992.80	2052.80	166.78	60.00	
P41	2052.80	2053.80	106.78	1.00	
	2053.80	2068.90	105.78	15.10	
P42	2068.90	2069.40	90.68	0.50	
	2069.40	2102.00	90.18	32.60	
P3	2102.00	2107.20	57.58	5.20	
	2107.20	2312.09	52.38	204.89	

NO DATA FROM 0 TO 199.00
GAMMA-CALIPER LOG FROM 0 TO 1610.00
GAMMA-DENSITY LOG FROM 1600.00 TO TD.

U6B.CMP
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
FILE: C:\COMPLETE\U6B.CMP
DATE: 06/01/11

□□

Exhibit A

Well Name: 07 CBM U8

SURFACE ELEV: 2064.00 EASTING: 958250.00 NORTHING: 329877.00

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS

LB1	73.80	75.10	1990.20	1.30	
	75.10	139.00	1988.90	63.90	
LB2	139.00	140.10	1925.00	1.10	
	140.10	282.50	1923.90	142.40	
KN2	282.50	285.50	1781.50	3.00	
	285.50	397.00	1778.50	111.50	
AL1	397.00	397.80	1667.00	0.80	
	397.80	428.60	1666.20	30.80	
AL2	428.60	430.20	1635.40	1.60	
	430.20	473.00	1633.80	42.80	
COAL	473.00	473.20	1591.00	0.20	
	473.20	504.00	1590.80	30.80	
COAL	504.00	504.10	1560.00	0.10	
	504.10	504.90	1559.90	0.80	
RA2	504.90	506.20	1559.10	1.30	
	506.20	630.40	1557.80	124.20	
JB1	630.40	631.50	1433.60	1.10	
	631.50	683.80	1432.50	52.30	
JB3	683.80	685.60	1380.20	1.80	
	685.60	772.80	1378.40	87.20	
T1	772.80	773.40	1291.20	0.60	
	773.40	775.90	1290.60	2.50	
TI	775.90	776.70	1288.10	0.80	
	776.70	874.40	1287.30	97.70	
US1	874.40	874.90	1189.60	0.50	
	874.90	1022.70	1189.10	147.80	
GC2	1022.70	1022.80	1041.30	0.10	
	1022.80	1023.30	1041.20	0.50	
GC2	1023.30	1025.40	1040.70	2.10	
	1025.40	1105.60	1038.60	80.20	
*SE2	1105.60	1106.20	958.40	0.60	
	1106.20	1130.30	957.80	24.10	
*LS1	1130.30	1130.60	933.70	0.30	
	1130.60	1133.90	933.40	3.30	
*COAL	1133.90	1134.40	930.10	0.50	
	1134.40	1225.40	929.60	91.00	
*UH1	1225.40	1226.10	838.60	0.70	
	1226.10	1264.00	837.90	37.90	
*UH2	1264.00	1265.80	800.00	1.80	
	1265.80	1305.00	798.20	39.20	
*MH1	1305.00	1306.50	759.00	1.50	
	1306.50	1401.50	757.50	95.00	
*P11	1401.50	1402.60	662.50	1.10	
	1402.60	1403.30	661.40	0.70	
*P11	1403.30	1403.70	660.70	0.40	
	1403.70	1405.40	660.30	1.70	
*COAL	1405.40	1405.80	658.60	0.40	

	1405.80	1418.00	658.20	12.20
*P10	1418.00	1418.40	646.00	0.40
	1418.40	1444.80	645.60	26.40
*COAL	1444.80	1445.70	619.20	0.90
	1445.70	1469.00	618.30	23.30
*LH3	1469.00	1470.70	595.00	1.70
	1470.70	1529.10	593.30	58.40
*P91	1529.10	1530.90	534.90	1.80
	1530.90	1531.10	533.10	0.20
*P92	1531.10	1531.50	532.90	0.40
	1531.50	1564.20	532.50	32.70
*P81	1564.20	1565.20	499.80	1.00
	1565.20	1770.50	498.80	205.30
*COAL	1770.50	1770.80	293.50	0.30
	1770.80	1803.70	293.20	32.90
*P51	1803.70	1806.80	260.30	3.10
	1806.80	1818.50	257.20	11.70
*COAL	1818.50	1819.50	245.50	1.00
	1819.50	1823.70	244.50	4.20
*P52	1823.70	1825.40	240.30	1.70
	1825.40	1870.80	238.60	45.40
*P41	1870.80	1872.10	193.20	1.30
	1872.10	1872.10	191.90	0.00
*P42	1872.10	1874.70	191.90	2.60
	1874.70	1874.70	189.30	0.00
*P43	1874.70	1876.50	189.30	1.80
	1876.50	1914.20	187.50	37.70
*P31	1914.20	1915.40	149.80	1.20
	1915.40	1915.40	148.60	0.00
*P32	1915.40	1916.80	148.60	1.40
	1916.80	1916.80	147.20	0.00
*P33	1916.80	1918.00	147.20	1.20
	1918.00	1918.00	146.00	0.00
*P34	1918.00	1919.40	146.00	1.40
	1919.40	1954.00	144.60	34.60
*P21	1954.00	1954.10	110.00	0.10
	1954.10	1959.10	109.90	5.00
*P22	1959.10	1959.30	104.90	0.20
	1959.30	2082.71	104.70	123.41

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
WELL'S PROXIMITY TO TOWN HILL CREEK.
GAMMA-CALIPER LOG FROM 0 TO 364.00
GAMMA-DENSITY LOG FROM 364.00 TO TD.
NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
FILE: D:\PROJECTS\VP_JJK\GAS\U8.CMP
DATE: 02/27/07

Exhibit A

Well Name: 05-CNX-U-4

SURFACE ELEV: 2286.54 EASTING: 950317.92 NORTHING: 329439.22

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
COAL	206.70	209.10	2079.84	2.40	MINED OUT
	209.10	251.90	2077.44	42.80	
HG1	251.90	257.00	2034.64	5.10	
	257.00	364.80	2029.54	107.80	
SD1	364.80	366.90	1921.74	2.10	
	366.90	389.00	1919.64	22.10	
COAL	389.00	389.30	1897.54	0.30	
	389.30	390.70	1897.24	1.40	
SD2	390.70	391.30	1895.84	0.60	
	391.30	391.90	1895.24	0.60	
SD3	391.90	393.90	1894.64	2.00	
	393.90	423.00	1892.64	29.10	
UB1	423.00	423.10	1863.54	0.10	
	423.10	429.10	1863.44	6.00	
UB2	429.10	429.50	1857.44	0.40	
	429.50	580.50	1857.04	151.00	
LB2	580.50	580.90	1706.04	0.40	
	580.90	703.30	1705.64	122.40	
KN1	703.30	703.90	1583.24	0.60	
	703.90	725.10	1582.64	21.20	
KN2	725.10	726.50	1561.44	1.40	
	726.50	831.90	1560.04	105.40	
AL1	831.90	832.00	1454.64	0.10	
	832.00	870.00	1454.54	38.00	
AL2	870.00	871.80	1416.54	1.80	
	871.80	937.00	1414.74	65.20	
RA2	937.00	938.00	1349.54	1.00	
	938.00	1055.70	1348.54	117.70	
JB1	1055.70	1056.50	1230.84	0.80	
	1056.50	1094.60	1230.04	38.10	
JB3	1094.60	1096.00	1191.94	1.40	
	1096.00	1174.20	1190.54	78.20	
T1	1174.20	1175.00	1112.34	0.80	
	1175.00	1188.40	1111.54	13.40	
TI	1188.40	1189.00	1098.14	0.60	
	1189.00	1286.20	1097.54	97.20	
*US1	1286.20	1286.30	1000.34	0.10	
	1286.30	1310.40	1000.24	24.10	
*US2	1310.40	1310.70	976.14	0.30	
	1310.70	1552.40	975.84	241.70	
*SE3	1552.40	1552.50	734.14	0.10	
	1552.50	1641.00	734.04	88.50	
*UH1	1641.00	1641.60	645.54	0.60	
	1641.60	1669.50	644.94	27.90	
*UH2	1669.50	1670.30	617.04	0.80	
	1670.30	1706.10	616.24	35.80	
*MH1	1706.10	1707.60	580.44	1.50	
	1707.60	1838.50	578.94	130.90	
*P11	1838.50	1838.60	448.04	0.10	
	1838.60	1898.90	447.94	60.30	
*LH3	1898.90	1900.30	387.64	1.40	
	1900.30	1960.30	386.24	60.00	
*P91	1960.30	1961.00	326.24	0.70	
*P92	1961.00	1962.70	325.54	1.70	
	1962.70	2000.40	323.84	37.70	
*P81	2000.40	2001.10	286.14	0.70	
	2001.10	2257.30	285.44	256.20	
*P52	2257.30	2259.00	29.24	1.70	

	2259.00	2265.90	27.54	6.90
*COAL	2265.90	2267.00	20.64	1.10
	2267.00	2269.00	19.54	2.00
*COAL	2269.00	2271.30	17.54	2.30
	2271.30	2324.44	15.24	53.14
*P41	2324.44	2327.90	-37.90	3.46
*P42	2327.90	2331.10	-41.36	3.20
	2331.10	2333.18	-44.56	2.08
*P43	2333.18	2333.70	-46.64	0.52
	2333.70	2345.90	-47.16	12.20
*P31	2345.90	2346.40	-59.36	0.50
*P32	2346.40	2348.00	-59.86	1.60
	2348.00	2348.50	-61.46	0.50
*P33	2348.50	2350.00	-61.96	1.50
*P34	2350.00	2350.40	-63.46	0.40
	2350.40	2384.60	-63.86	34.20
*P21	2384.60	2385.00	-98.06	0.40
	2385.00	2419.30	-98.46	34.30
*P01	2419.30	2421.10	-132.76	1.80
	2421.10	2505.00	-134.56	83.90
*SJ3	2505.00	2505.90	-218.46	0.90
	2505.90	2591.04	-219.36	85.14

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
 WELL'S PROXIMITY TO SHORTRIDGE BRANCH.
 GAMMA-CALIPER LOG FROM 0 TO 309.00
 GAMMA-DENSITY LOG FROM 309.00 TO TD.
 FILE: C:\VP\GAS\U4.CMP
 DATE: 10/21/05

DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: CNX

HOLE #: W-4

LOCATION: LEE MASTER

DRILL RIG #: 88

DATE STARTED: 03-13-06

DATED COMPLETED: 03-16-06

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	4	4	OVERBURDEN	
4	20	16	SHALE/SAND STONE	
20	30	10	SAND STONE	
30	90	60	SAND/SHALE	
90	240	150	SAND/SHALE/COAL	
240	270	30	SAND STONE/COAL STRK/SANDY SHALE	
270	300	30	SANDY SHALE/COAL/SAND STONE	
			/COAL/SAND STONE	
300	330	30	SANDY SHALE/SAND STONE/SANDY SHALE	
330	360	30	SANDY SHALE/COAL/SAND STONE	
360	390	30	SANDY SHALE/SAND STONE/SANDY SHALE	
390	450	60	SAND/SHALE	
450	510	60	SAND/SHALE/COAL	
510	540	30	SAND/SHALE	
540	600	60	SAND/SHALE/COAL	
600	630	30	SAND/SHALE	
630	720	90	SAND/SHALE/COAL	
720	780	60	SAND/SHALE	
780	840	60	SAND/SHALE/COAL	
840	870	30	SAND/SHALE	
870	900	30	SAND/SHALE/COAL	
900	960	60	SAND/SHALE	
960	990	30	SAND/SHALE/COAL	
990	1050	60	SAND/SHALE	
1050	1110	60	SAND/SHALE/COAL	
1110	1290	180	SAND/SHALE	
1290	1350	60	SAND/SHALE/COAL	
1350	1410	60	SAND/SHALE	
1410	1440	30	SANDY SHALE/COAL/SAND STONE	
1440	1470	30	SAND STONE/SANDY SHALE/ COAL /SANDY	
			SHALE	
1470	1500	30	SAND STONE/SANDY SHALE/SAND STONE	
1500	1530	30	COAL/SANDY SHALE	
1530	1560	30	SANDY SHALE/SAND STONE/SANDY SHALE	
1560	1590	30	SANDY SHALE	
1590	1620	30	SAND STONE/SANDY SHALE/SAND STONE	
1620	1650	30	SAND STONE	
1650	1680	30	SAND STONE/SANDY SHALE	
1680	1710	30	SAND STONE/SANDY SHALE /COAL /SAND	
			STONE/SANDY SHALE	
1710	1745	35	SANDY SHALE/SAND STONE/SANDY SHALE	

1745	1775	30	SANDY SHALE/COAL/SANDY SHALE W /SAND
	STONE STR		
1775	1805	30	SANDY SHALE/COAL/SAND STONE
1805	1835	30	SANDY SHALE
1835	1865	30	SAND STONE/SANDY SHALE
1865	1895	30	SAND STONE W/SHALE STRKS
1895	1925	30	SAND STONE (HARD)
1925	2045	120	SAND STONE
2045	2075	30	SAND STONE/COAL/SANDY SHALE
2075	2135	60	SAND/SHALE/COAL
2135	2151	16	SAND/SHALE
2151	2152	1	COAL P-3
2152	2255	103	SAND/SHALE
2255	2315	60	SAND/STONE
2315	2345	30	SAND STONE
2345	2375	30	SAND STONE/SHALE/RED

2375.00 FT. TOTAL DEPTH
20.35 FT. OF 13 3/8" CASING
221.15 FT. OF 7" CASING
2252.87 FT. OF 4 1/2" CASING

COMPANY: CNX GAS CO LLC
 HOLE: W-4-A
 RIG: 109
 LOCATION: RATTLESNAKE BRANCH, VA

DATE STARTED: 1/11/2012
 DATE COMPLETED: 1/20/2012

ELECTRIC LOGGED: YES
 GROUTED: YES

DEPTH FROM	THICKNESS TO	FT	STRATA DESCRIPTION, VOIDS ETC
0	38.49	38.49	OVERBURDEN
38.49	60	21.51	SAND/SHALE
60	90	30	SAND/SHALE
90	120	30	SAND/SHALE
120	121	1	COAL
121	150	29	SHALE/SAND
150	180	30	SAND/SHALE
180	210	30	SAND/SHALE
210	240	30	SAND/SHALE
240	250	10	SAND/SHALE
250	280	30	SAND/SHALE/COAL (COAL @278-280)
280	290	10	SHALE
290	291	1	COAL
291	310	19	SHALE/SAND
310	325	15	SAND/SHALE
325	326	1	COAL
326	340	14	SHALE/SAND
340	370	30	SAND/SHALE
370	400	30	SAND/SHALE
400	410	10	SAND/SHALE
410	411	1	COAL
411	430	19	SHALE/SAND
430	460	30	SAND/SHALE
460	475	15	SAND/SHALE
475	476	1	COAL
476	490	14	SHALE/SAND
490	520	30	SAND/SHALE
520	550	30	SAND/SHALE
550	580	30	SAND/SHALE
580	610	30	SAND/SHALE
610	625	15	SAND/SHALE
625	626	1	COAL
626	640	14	SHALE/SAND
640	670	30	SAND/SHALE
670	700	30	SAND/SHALE
700	730	30	SAND/SHALE
730	731	1	COAL
731	760	29	SHALE/SAND
760	770	10	SHALE

770	771	1 COAL
771	790	19 SHALE/SAND
790	820	30 SAND/SHALE
820	835	15 SAND/SHALE
835	836	1 COAL
836	850	14 SHALE/SAND
850	880	30 SAND/SHALE
880	910	30 SAND/SHALE
910	925	15 SAND/SHALE
925	926	1 COAL
926	940	14 SAND/SHALE
940	960	20 SAND/SHALE
960	961	1 COAL
961	970	9 SAND/SHALE
970	1000	30 SAND/SHALE
1000	1015	15 SAND/SHALE
1015	1017	2 COAL
1017	1030	13 SAND/SHALE
1030	1060	30 SAND/SHALE
1060	1090	30 SAND/SHALE
1090	1095	5 SAND/SHALE
1095	1097	2 COAL
1097	1120	23 SAND/SHALE
1120	1150	30 SAND/SHALE
1150	1180	30 SAND/SHALE
1180	1200	20 SAND/SHALE
1200	1201	1 COAL
1201	1210	9 SAND/SHALE
1210	1235	25 SAND/SHALE
1235	1236	1 COAL
1236	1240	4 SAND/SHALE
1240	1270	30 SAND/SHALE
1270	1300	30 SAND/SHALE
1300	1330	30 SAND/SHALE
1330	1360	30 SAND/SHALE
1360	1390	30 SAND/SHALE
1390	1420	30 SAND/SHALE
1420	1450	30 SAND/SHALE
1450	1480	30 SAND/SHALE/COAL (COAL @1455-1459)
1480	1510	30 SAND/SHALE
1510	1520	10 SAND/SHALE
1520	1523	3 COAL
1523	1540	17 SAND/SHALE
1540	1558	18 SAND/SHALE
1558	1559	1 COAL
1559	1570	11 SAND/SHALE
1570	1590	20 SAND/SHALE
1590	1593	3 COAL
1593	1600	7 SAND/SHALE
1600	1628	28 SAND/SHALE
1628	1630	2 COAL
1630	1660	30 SAND/SHALE

Exhibit A

Well Name: 07 CBM W5

SURFACE ELEV: 2177.47 EASTING: 952844.59 NORTHING: 326710.66

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
SD1	127.10	129.80	2050.37	2.70	
	129.80	149.80	2047.67	20.00	
COAL	149.80	150.50	2027.67	0.70	
	150.50	151.90	2026.97	1.40	
SD2	151.90	155.10	2025.57	3.20	
	155.10	190.10	2022.37	35.00	
UB2	190.10	191.10	1987.37	1.00	
	191.10	268.10	1986.37	77.00	
LB1	268.10	269.00	1909.37	0.90	
	269.00	479.50	1908.47	210.50	
KN2	479.50	481.90	1697.97	2.40	
	481.90	584.10	1695.57	102.20	
AL1	584.10	584.80	1593.37	0.70	
	584.80	620.90	1592.67	36.10	
AL2	620.90	622.10	1556.57	1.20	
	622.10	682.90	1555.37	60.80	
RA2	682.90	684.10	1494.57	1.20	
	684.10	823.50	1493.37	139.40	
JB1	823.50	825.00	1353.97	1.50	
	825.00	872.30	1352.47	47.30	
JB3	872.30	874.20	1305.17	1.90	
	874.20	947.90	1303.27	73.70	
T1	947.90	948.70	1229.57	0.80	
	948.70	959.70	1228.77	11.00	
TI	959.70	960.50	1217.77	0.80	
	960.50	1054.60	1216.97	94.10	
*US1	1054.60	1054.70	1122.87	0.10	
	1054.70	1095.10	1122.77	40.40	
*US2	1095.10	1095.90	1082.37	0.80	
	1095.90	1207.50	1081.57	111.60	
*COAL	1207.50	1208.10	969.97	0.60	
	1208.10	1299.80	969.37	91.70	
*SE1	1299.80	1301.00	877.67	1.20	
	1301.00	1332.40	876.47	31.40	
*SE2	1332.40	1333.00	845.07	0.60	
	1333.00	1424.10	844.47	91.10	
*UH1	1424.10	1424.40	753.37	0.30	
	1424.40	1425.00	753.07	0.60	
*UH1	1425.00	1425.50	752.47	0.50	
	1425.50	1457.50	751.97	32.00	
*UH2	1457.50	1459.00	719.97	1.50	
	1459.00	1494.00	718.47	35.00	
*MH1	1494.00	1495.20	683.47	1.20	
	1495.20	1678.20	682.27	183.00	
*LH3	1678.20	1679.60	499.27	1.40	
	1679.60	1739.40	497.87	59.80	
*P91	1739.40	1740.30	438.07	0.90	

	1740.30	1740.30	437.17	0.00
*P92	1740.30	1741.80	437.17	1.50
	1741.80	2049.70	435.67	307.90
*P51	2049.70	2050.20	127.77	0.50
	2050.20	2066.10	127.27	15.90
*P52	2066.10	2067.30	111.37	1.20
	2067.30	2118.00	110.17	50.70
*P41	2118.00	2123.10	59.47	5.10
	2123.10	2123.80	54.37	0.70
*P42	2123.80	2124.70	53.67	0.90
	2124.70	2131.00	52.77	6.30
*P31	2131.00	2131.70	46.47	0.70
	2131.70	2135.00	45.77	3.30
*P32	2135.00	2135.90	42.47	0.90
	2135.90	2136.80	41.57	0.90
*P33	2136.80	2138.30	40.67	1.50
	2138.30	2138.30	39.17	0.00
*P34	2138.30	2139.40	39.17	1.10
	2139.40	2140.40	38.07	1.00
*P35	2140.40	2141.20	37.07	0.80
	2141.20	2174.00	36.27	32.80
*P21	2174.00	2174.10	3.47	0.10
	2174.10	2215.70	3.37	41.60
*P01	2215.70	2217.20	-38.23	1.50
	2217.20	2260.00	-39.73	42.80

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY.

GAMMA-CALIPER LOG FROM 0 TO 400.00

GAMMA-DENSITY LOG FROM 400.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: D:\PROJECTS\VP_JJK\GAS\W5.CMP

DATE: 03/21/07

Exhibit A

Well Name: 07 CBM W5A

SURFACE ELEV: 2376.95 EASTING: 951979.79 NORTHING: 326029.92

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
NR1	70.90	72.20	2306.05	1.30	
	72.20	207.00	2304.75	134.80	
HG1	207.00	210.00	2169.95	3.00	
	210.00	329.00	2166.95	119.00	
SD1	329.00	331.10	2047.95	2.10	
	331.10	344.60	2045.85	13.50	
COAL	344.60	345.00	2032.35	0.40	
	345.00	349.10	2031.95	4.10	
SD2	349.10	351.00	2027.85	1.90	
	351.00	358.20	2025.95	7.20	
SD3	358.20	359.40	2018.75	1.20	
	359.40	392.20	2017.55	32.80	
UB1	392.20	392.80	1984.75	0.60	
	392.80	477.10	1984.15	84.30	
LB1	477.10	477.50	1899.85	0.40	
	477.50	541.20	1899.45	63.70	
LB2	541.20	543.00	1835.75	1.80	
	543.00	695.80	1833.95	152.80	
KN2	695.80	698.50	1681.15	2.70	
	698.50	797.50	1678.45	99.00	
AL1	797.50	797.90	1579.45	0.40	
	797.90	835.60	1579.05	37.70	
AL2	835.60	837.10	1541.35	1.50	
	837.10	895.00	1539.85	57.90	
RA2	895.00	895.40	1481.95	0.40	
	895.40	897.20	1481.55	1.80	
RA2	897.20	898.00	1479.75	0.80	
	898.00	1040.00	1478.95	142.00	
JB1	1040.00	1041.50	1336.95	1.50	
	1041.50	1087.50	1335.45	46.00	
JB3	1087.50	1089.40	1289.45	1.90	
	1089.40	1165.10	1287.55	75.70	
T1	1165.10	1165.80	1211.85	0.70	
	1165.80	1180.00	1211.15	14.20	
TI	1180.00	1181.00	1196.95	1.00	
	1181.00	1275.00	1195.95	94.00	
*US1	1275.00	1275.10	1101.95	0.10	
	1275.10	1317.60	1101.85	42.50	
*US2	1317.60	1318.10	1059.35	0.50	
	1318.10	1426.20	1058.85	108.10	
*COAL	1426.20	1427.00	950.75	0.80	
	1427.00	1519.00	949.95	92.00	
*SE1	1519.00	1520.00	857.95	1.00	
	1520.00	1643.00	856.95	123.00	
*UH1	1643.00	1644.70	733.95	1.70	
	1644.70	1670.00	732.25	25.30	
*UH2	1670.00	1671.10	706.95	1.10	

	1671.10	1705.90	705.85	34.80
*MH1	1705.90	1707.40	671.05	1.50
	1707.40	1895.80	669.55	188.40
*LH3	1895.80	1897.30	481.15	1.50
	1897.30	1961.10	479.65	63.80
*P91	1961.10	1963.10	415.85	2.00
	1963.10	1963.10	413.85	0.00
*P92	1963.10	1965.20	413.85	2.10
	1965.20	2009.10	411.75	43.90
*P81	2009.10	2010.50	367.85	1.40
	2010.50	2241.70	366.45	231.20
*P51	2241.70	2242.60	135.25	0.90
	2242.60	2271.40	134.35	28.80
*COAL	2271.40	2272.00	105.55	0.60
	2272.00	2275.10	104.95	3.10
*P52	2275.10	2277.30	101.85	2.20
	2277.30	2299.00	99.65	21.70
*COAL	2299.00	2299.10	77.95	0.10
	2299.10	2299.60	77.85	0.50
*COAL	2299.60	2300.20	77.35	0.60
	2300.20	2354.10	76.75	53.90
*P32	2354.10	2355.50	22.85	1.40
	2355.50	2355.50	21.45	0.00
*P33	2355.50	2357.00	21.45	1.50
	2357.00	2357.50	19.95	0.50
*P34	2357.50	2358.10	19.45	0.60
	2358.10	2359.10	18.85	1.00
*P35	2359.10	2360.40	17.85	1.30
	2360.40	2430.00	16.55	69.60
*P01	2430.00	2431.20	-53.05	1.20
	2431.20	2550.26	-54.25	119.06

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
WELL'S PROXIMITY TO BALDWIN BRANCH.

GAMMA-CALIPER LOG FROM 0 TO 754.00

GAMMA-DENSITY LOG FROM 754.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

FILE: D:\PROJECTS\VP_JJK\GAS\W5A.CMP

DATE: 03/22/07

Drill Data Hole - Gasco Drilling, Inc.

Company	Consol Energy LLC
Location	Deskins
Date Started	9/10/2005
Date Finished	9/13/2005

Hole No.	W8
Drill No.	Rig 2
Electric Logged	yes
Grouted	yes

Depth		Thickness	Strata	Remarks
From	To	Ft.	Description	Voids, Etc.
0	20	20	Overburden	25 ft. with 18" Casing
20	60	40	Sandstone	
60	61	1	Coal	
61	140	79	Sandstone	
140	141	1	Coal	
141	280	139	Sandyshale	
280	283	3	Coal	
283	330	47	Sandyshale	
330	370	40	Sandstone	
370	405	35	Sandyshale	
405	407	2	Coal	441.95 ft. with 13 3/8" Casing
407	480	73	Sandyshale	
480	482	2	Coal	
483	660	177	Streaked Sandyshale	
660	870	210	Sandstone	
870	873	3	Coal	
873	940	67	Streaked Sandyshale	
940	1020	80	Sandstone	
1015	1018	3	Coal	
1018	1030	12	Sandyshale	
1030	1075	45	Sandstone	
1075	1076	1	Coal	
1076	1090	14	Sandyshale	
1090	1091	1	Coal	
1091	1130	39	Sandstone	
1130	1191	61	Sandyshale	
1191	1192	1	Coal	
1192	1400	208	Sandyshale	
1400	1462	62	Sandstone	
1462	1464	2	Coal	
1464	1520	56	Sandyshale	
				Total Depth 1520 ft. 25 ft. with 18" Casing 441.95 ft with 13 3/8" Casing

Drill Data Hole - Gasco Drilling, Inc.

Company	Consol Energy LLC
Location	Deskins
Date Started	8/28/2005
Date Finished	9/2/2005

Hole No.	W8A
Drill No.	Rig 2
Electric Logged	Yes
Grouted	Yes

Depth		Thickness	Strata	Remarks
From	To	Ft.	Description	Voids, Etc.
0	20	20	Overburden	37 ft. with 18" Casing
20	33	13	Shale	
33	140	107	Sandstone	
140	185	45	Sandyshale	
185	187	2	Coal	
187	210	23	Sandyshale	
210	270	60	Sandstone	
270	273	3	Coal	
272	350	77	Sandyshale	
350	352	2	Coal	
352	390	38	Sandyshale	454 ft. with 13 3/8" Casing
390	391	1	Coal	
391	480	89	Streaked Sandyshale	
480	491	1	Coal	
491	550	59	Sandstone	
550	551	1	Coal	
551	645	94	Samdu	
645	646	1	Coal	
646	800	154	Sandstone	
800	905	105	Sandyshale	
905	908	3	Coal	
908	1050	142	Sandyshale	
1050	1350	300	Sandstone	
1350	1415	65	Hard Sandstone	
1415	1418	3	Coal	
1418	1440	22	Streaked Sandyshale	
1440	1490	50	Sandstone	
1490	1493	3	Coal	
1493	1525	32	Sandyshale	
				Total Depth 1525 ft. 37 ft. with 18" Casing 454 ft. with 13 3/8" Casing

Drill Data Hole - Gasco Drilling, Inc.

Company	Consol Energy LLC
Location	Deskins
Date Started	9/13/2005
Date Finished	9/21/2005

Hole No.	W8C
Drill No.	Rig 2
Electric Logged	Yes
Grouted	Yes

Depth		Thickness	Strata	Remarks
From	To	Ft.	Description	Voids, Etc.
0	5	5	Overburden	10 ft with 18" Casing
5	90	85	Sandstone	
90	115	25	Sandyshale	
115	116	1	Coal	
116	125	9	Sandyshale	
125	365	40	Sandstone	498.80 ft. with 13 3/8" Casing
365	366	1	Coal	
366	450	84	Sandstone	
450	451	1	Coal	
451	555	104	Sandyshale	
555	556	1	Coal	
556	610	54	Sandstone	
610	611	1	Coal	
611	730	119	Streaked Sandyshale	
730	731	1	Coal	
731	850	119	Sandyshale	
850	865	15	Sandstone	
865	866	1	Coal	
866	1060	194	Sandyshale	
1060	1061	1	Coal	
1061	1130	69	Sandstone	
1130	1131	1	Coal	
1131	1240	109	Sandyshale	
1240	1241	1	Coal	
1241	1310	69	Sandyshale	
1310	1311	1	Coal	
1311	1640	329	Sandstone	Total Depth 1697 ft. 10 ft. with 18" Casing 498.80 ft. with 13 3/8" Casing
1640	1644	4	Coal	
1644	1697	53	Sandyshale	

Drill Data Hole - Gasco Drilling, Inc.

Company	Consol Energy LLC
Location	Deskens
Date Started	9/21/2005
Date Finished	9/24/2005

Hole No.	W8D
Drill No.	Rig 2
Electric Logged	yes
Grouted	yes

Depth		Thickness	Strata	Remarks
From	To	Ft.	Description	Voids, Etc.
0	5	5	Overburden	11 ft. with 18" Casing
5	75	70	Sandstone	
75	76	1	Coal	
76	180	104	Sandyshale	
180	183	3	Coal	
183	280	97	Sandstone	545 ft. with 13 3/8" Casing
280	215	35	Sandyshale	
315	318	3	Coal	
318	410	92	Sandyshale	
410	412	2	Coal	
412	790	388	Streaked Sandyshale	
790	792	2	Coal	
792	820	28	Sandstone	
820	1138	318	Sandyshale	
1138	1170	32	Sandstone	
1170	1172	2	Coal	
1172	1260	88	Streaked Sandyshale	
1260	1262	2	Coal	
1262	1350	88	Sandyshale	
1350	1530	180	Sandstone	
1530	1532	2	Coal	
1532	1585	53	Sandyshale	
				Total Depth 1585 ft.
				11 ft. with 18" Casing
				545 ft. with 13 3/8" Casing

Drill Data Hole - Gasco Drilling, Inc.

Company	Consol Energy LLC
Location	Deskins
Date Started	9/26/2005
Date Finished	9/30/2005

Hole No.	W8E
Drill No.	Rig 2
Electric Logged	yes
Grouted	yes

Depth		Thickness	Strata	Remarks
From	To	Ft.	Description	Voids, Etc.
0	10	10	Overburden	20 ft. with 18" Casing
10	90	80	Sandstone	
90	210	120	Sandyshale	
210	220	10	Sandstone	
220	222	2	Coal	
222	325	103	Sandstone	
325	355	30	Streaked Sandyshale	
355	358	3	Coal	
358	408	50	Sandyshale	
408	410	2	Coal	
410	450	40	Sandyshale	507 ft. with 13 3/8" Casing
450	453	3	Coal	
453	587	134	Sandyshale	
587	589	2	Coal	
589	640	51	Sandyshale	
640	644	1	Coal	
644	820	176	Streaked Sandyshale	
820	1060	240	Sandstone	
1060	1061	1	Coal	
1061	1160	99	Sandyshale	
1160	1161	1	Coal	
1161	1250	89	Sandyshale	
1250	1253	3	Coal	
1253	1310	47	Sandyshale	
1310	1510	200	Sandstone	
1510	1511	1	Coal	
1511	1575	64	Streaked Sandyshale	
1575	1576	1	P4 Seam	
1576	1585	9	Sandyshale	Total Depth 1585 ft. 20 ft. with 18" Casing 507 ft. with 13 3/8" Casing

DRILLER'S LOG

Compiled by - GASCO

Geologic Age	Formation	General Lithology	Color	Depth		Thickness	Remarks
				Top	Bottom		
Pennsylvanian	Pocahontas	SANDSTONE		0	12		
		SANDSTONE		12	90		
		SANDY SHALE		90	125		
		SANDSTONE		125	223		
		COAL		223	224		
		SANDSTONE STRK		224	230		
		SANDY SHALE		230	345		
		SANDSTONE		345	420		
		COAL		420	421		
		SANDY SHALE STRK		421	483		
		SANDY SHALE		483	545		
		SANDY SHALE		545	592		
		COAL		592	593		
		SANDSTONE		593	640		
		SANDY SHALE		640	736		
		COAL		736	737		
		SANDSTONE STRK		737	759		
		COAL		759	760		
		SANDY SHALE STRK		760	774		
		SANDY SHALE STRK		774	795		
		COAL		795	796		
		SANDY SHALE		796	843		
		SANDSTONE		843	876		
		COAL		876	877		
		SANDY SHALE STRK		877	895		
		COAL		895	896		
		SANDSTONE		896	969		
		SANDSTONE		969	1040		
		COAL		1040	1042		
		SANDY SHALE		1042	1118		
		COAL		1118	1119		
		SANDY SHALE		1119	1160		
		SANDSTONE		1160	1230		
		SANDSTONE		1230	1240		
		SANDY SHALE STRK		1240	1270		
		SANDSTONE		1270	1305		
		COAL		1305	1306		
		SANDY SHALE STRK		1306	1357		
		COAL		1357	1358		
		SANDY SHALE STRK		1358	1410		
		COAL		1410	1411		
		SANDY SHALE		1411	1429		

NOTE: INFORMATION TAKEN VERBATIM FROM FIELD RECORDS

Permittee: CONSOL INC. (Company)

By: *Leslie L. Chung Jr* (Signature)