

APPENDICES

10-1-18

APPENDIX A
SUMMARY OF WELL INFORMATION
WITHIN A ONE MILE RADIUS
OF
V.P. NUMBER 5 MINE

APPENDIX A⁽¹⁾

Appendix A

Page 1

SUMMARY OF WELL INFORMATION
WITHIN A ONE MILE RADIUS
OF
V. P. NUMBER 5 MINE

Well ⁽²⁾ Number	Operator	Coordinates		Well Type	Depth (Feet)	Formation
		N/S	E/W			
L-81	Island Creek	3614998.98	10433987.17	Plugged Exploration Core Holes	1732	Pocahontas #3
L-83	Island Creek	3615426.76	10438206.54	Plugged Exploration Core Holes	1367	Pocahontas #2
L-86	Island Creek	3611983.99	10439159.41	Plugged Exploration Core Holes	1576	Bluestone
L-87	Island Creek	3614063.71	10430760.27	Plugged Exploration Core Holes	2311	Pocahontas #2
L-96	Island Creek	3608794.28	10430513.27	Plugged Exploration Core Holes	1780	Pocahontas #3
L-106	Island Creek	3612441.82	10434057.22	Plugged Exploration Core Holes	1791	Pocahontas #3
L-111	Island Creek	360779.28	10439116.24	Plugged Exploration Core Holes	1462	Pocahontas #3
L-114	Island Creek	3604361.12	10437041.30	Plugged Exploration Core Holes	1963	Pocahontas #1
L-117	Island Creek	3608689.74	10435713.85	Plugged Exploration Core Holes	1805	Pocahontas #3
L-199	Island Creek	3610661.91	10444171.81	Plugged Exploration Core Holes	1546	Pocahontas #3
L-201	Island Creek	3609502.54	10437585.69	Plugged Exploration Core Holes	1646	Pocahontas #1
L-206	Island Creek	3613713.79	10437927.33	Plugged Exploration Core Holes	1342	Pocahontas #3
L-221	Island Creek	3608657.64	10441114.15	Plugged Exploration Core Holes	1460	Pocahontas #2
L-222	Island Creek	3610138.21	10442469.78	Plugged Exploration Core Holes	1468	Pocahontas #3
L-223	Island Creek	3609387.85	10440790.43	Plugged Exploration Core Holes	1465	Pocahontas #2
L-230	Island Creek	3609695.79	10441565.08	Plugged Exploration Core Holes	1365	Pocahontas #3
L-245	Island Creek	3605453.16	10431922.95	Plugged Exploration Core Holes	2130	Bluestone
VVH-90	Island Creek	3608332.30	10435667.91	Vertical Ventilation	2181	Pocahontas #4
VVH-91	Island Creek	3606772.65	10435633.24	Vertical Ventilation	2275	Pocahontas #3
VVH-92	Island Creek	3607549.03	10435565.01	Vertical Ventilation	2122	Pocahontas #4
VVH-93	Island Creek	3609289.14	10435419.95	Vertical Ventilation	1571	Pocahontas #3
VVH-105	Island Creek	3609202.05	10436572.78	Vertical Ventilation	1703	Pocahontas #3
VVH-110	Island Creek	NO LOG AVAILABLE		Vertical Ventilation	NO LOG AVAILABLE	
VVH-112	Island Creek	3608424.60	10437174.50	Vertical Ventilation	1785	Pocahontas #3
VVH-113	Island Creek	3608302.54	10438187.75	Vertical Ventilation	1984	Pocahontas #3
VVH-115	Island Creek	NO LOG AVAILABLE		Vertical Ventilation	NO LOG AVAILABLE	

APPENDIX A(1)
SUMMARY OF WELL INFORMATION
WITHIN A ONE MILE RADIUS
OF
V.P. NUMBER 5 MINE
(continued)

Well ⁽²⁾ Number	Operator	Coordinates N/S E/W		Well Type	Depth (Feet)	Formation
VVH-116	Island Creek	NO LOG AVAILABLE		Vertical Ventilation	NO LOG AVAILABLE	
VVH-168	Island Creek	3606581.61	10438940.09	Vertical Ventilation	1507	Pocahontas #3
VVH-187	Island Creek	NO LOG AVAILABLE		Vertical Ventilation	NO LOG AVAILABLE	
SHLHR2	Island Creek	3609714.69	10442026.97	Test Hole	1391	Pocahontas #3
SH200H	Island Creek	3609548.59	10441964.13	Water Supply for Mine	1429	Pocahontas #3
SNIT1	Island Creek	NO LOG AVAILABLE		Nitrogen Injection (fire control)		Pocahontas #3
SNIT2	Island Creek	NO LOG AVAILABLE		Nitrogen Injection (fire control)		Pocahontas #3
SRKDS1	Island Creek	3609550.24	10441905.07	Rock Dust Hole for Mining	1416	Pocahontas #3
CBM1-T2	OXY-USA	NO LOG AVAILABLE		Coalbed Methane	NO LOG AVAILABLE	
CBM1-T3	OXY-USA	3613352.25	10432019.52	Coalbed Methane	2426	Pocahontas #3
CBM1-T4	OXY-USA	3613270.35	10434290.87	Coalbed Methane	2262	Pocahontas #3
CBM1-T5	OXY-USA	3612155.73	10436493.17	Coalbed Methane	1571	Pocahontas #3
CBM1-U3	OXY-USA	3611394.65	10431693.45	Coalbed Methane	2009	Pocahontas #3
CBM1-V10	OXY-USA	3614042.07	10439108.27	Coalbed Methane	1621	Pocahontas #3
CBM1-W10	OXY-USA	3607256.18	10444257.06	Coalbed Methane	1523	Pocahontas #3
CBM1-W11	OXY-USA	3607441.23	10446023.75	Coalbed Methane	1650	Pocahontas #3
CBM1-X9	OXY-USA	3604502.07	10445089.24	Coalbed Methane	1513	Pocahontas #2
CBM1-X10	OXY-USA	3604113.90	10445089.24	Coalbed Methane	1575	Pocahontas #3
CBM1-Y9	OXY-USA	3602624.87	10442660.02	Coalbed Methane	1475	Pocahontas #3
CBM1-56	Island Creek	3613723.91	10436987.08	Coalbed Methane	1554	Pocahontas #3

APPENDIX A⁽¹⁾
SUMMARY OF WELL INFORMATION
WITHIN A ONE MILE RADIUS
OF
V.P. NUMBER 5 MINE
(continued)

Well ⁽²⁾ Number	Operator	Coordinates		Well Type	Depth (Feet)	Formation
		N/S	E/W			
CBM1-Y10	OXY-USA	3602393.65	10441966.09	Coalbed Methane	1710	Pocahontas #2
CBM1-S7	OXY-USA	3614369.19	10439754.36	Coalbed Methane	1682	Pocahontas #2
CBM1-S8	OXY-USA	3613570.26	10440995.11	Coalbed Methane	1729	Pocahontas #2
CBM1-T7	OXY-USA			NEVER DRILLED		
CBM1-U2	OXY-USA	3611029.72	10430737.68	Coalbed Methane	1960	Pocahontas #3
CBM1-U10	OXY-USA	3610537.96	10444704.13	Coalbed Methane	1690	Pocahontas #3
CBM1-W3	OXY-USA			NEVER DRILLED		
CBM1-X8	OXY-USA			NEVER DRILLED		
CBM1-Z8	OXY-USA	3600669.10	10441272.65	Coalbed Methane	1606	Pocahontas #2
CBM1-Z9	OXY-USA	3601336.24	10442947.27	Coalbed Methane	1567	Pocahontas #1

- (1) Summary of well information provided by Island Creek Coal Company to MSPS Consultants, Inc., May, 1992.
- (2) For location of wells see Drawing 91-76-1.

APPENDIX B
WATER SUPPLY INVENTORY LIST

WATER SUPPLY INVENTORY LIST

V.P. NUMBER 5 MINE - PERMIT #0400552
DESKINS, SUCHANAN COUNTY, VIRGINIAINVENTORIED BY: BOB BROWN AND GERALD RAMSEY
DATE: 3/18/80 THROUGH 3/20/80

<u>Map No.</u> ⁽²⁾	<u>Owner's Name</u>	<u>Address</u>	
W-1	Vern Church Phone: 597-8063	Route 1, Box 94 Vansant, Virginia	24656
W-2	Virginia Correctional Division Field Unit 31 Phone: 597-7409	Vansant, Virginia	24656
W-3	Walter Price Phone: 597-7017	Box 226 Vansant, Virginia	24656
W-4	Lonnie Brown Phone: 597-8039	Rt. 1, Box 92-A Vansant, Virginia	24656
W-5	William Rife Phone: 597-7372	Rt. 1, Box 97 Vansant, Virginia	24656
W-6	Eugene Yates	Vansant, Virginia	24656
W-7	Larry Taylor Phone: 597-7620	Box 532 Vansant, Virginia	24656
W-8	Tommy Bailey	Box 616 Vansant, Virginia	24656
W-9	Donald Ramey Phone: 592-8316	Box 835 Vansant, Virginia	24656
W-10	Alvery Tiller Phone: 547-7623	Vansant, Virginia	24656
W-11	Carrie Tiller	Vansant, Virginia	24656
W-12	Anita Prater Phone: 592-8282	Vansant, Virginia	24656
W-13	Mave Stacey	No Address Given	

APPENDIX B⁽¹⁾

WATER SUPPLY INVENTORY LIST

V.P. NUMBER 5 MINE - PERMIT #0400552
DESKINS, BUCHANAN COUNTY, VIRGINIA

INVENTORIED BY: BOB BROWN AND GERALD RAMSEY
DATE: 3/18/80 THROUGH 3/20/80
(continued)

<u>Map No.</u> ⁽²⁾	<u>Owner's Name</u>	<u>Address</u>
W-14	VP #5 Mining Company Phone: 498-4511	P.O. Drawer L Oakwood, Virginia 24631
W-15	VP #5 Mining Company Phone: 498-4511	P.O. Drawer L Oakwood, Virginia 24631
W-16	VP #5 Mining Company Phone: 498-4511	P.O. Drawer L Oakwood, Virginia 24631

(1) Water supply inventory provided by Island Creek Coal Company. Inventory was conducted by Island Creek Coal Company in March, 1980.

(2) For location of water sources, see Drawing 91-58-1.

APPENDIX B⁽¹⁾

WATER SUPPLY INVENTORY LIST
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
DESKINS, BUCHANAN COUNTY, VIRGINIA
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93

<u>Map No.</u> ⁽⁴⁾	<u>Name</u>	<u>Address</u>
B-1	Susan Taylor	Box 267 Grundy, VA 24614
B-2	Allen & Rebecha Hagerman Phone: 597-7702	P.O. Box 326 Vansant, VA 24656
B-3	Dennis Ratliff Phone: 935-7578	Vansant, VA 24656
B-4	David Owens Phone: 597-8231	Vansant, VA 24656
B-5	Arthur Duty Phone: 597-7820	P.O. Box 3 Vansant, VA 24656
B-6	Cecil Shortridge Phone: 597-8049	Box 64 Vansant, VA 24656
B-7	James & Janice Shortridge Phone: 597-7103	Box 884 Vansant, VA 24656
B-8	Onaby Yates Phone: 597-7711	Box 57 Vansant, VA 24656
B-9	Ralph Hurley Phone: 597-7072	Box 303 Vansant, VA 24656
B-9A	Ralph Hurley Phone: 597-7072	Box 303 Vansant, VA 24656
B-10	Randy & Judy Newbury	Box 591 Vansant, VA 24656
B-11	Sandra Mullins Phone: 597-2211	Route 1, Box 89 Vansant, VA 24656

APPENDIX B⁽¹⁾

WATER SUPPLY INVENTORY LIST
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAE2D926BBUC
DESKINS, BUCHANAN COUNTY, VIRGINIA
INVENTORY BY JEFF BOORD AND JOE FERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

<u>Map No.</u> ⁽⁴⁾	<u>Name</u>	<u>Address</u>
B-12	Edward Stilter Phone: 597-8821	Route 1, Box 91 Vansant, VA 24656
B-13	Carl & Nel Coleman Phone: 597-7868	Box 262 Vansant, VA 24656
B-14	Jennings Boyd Phone: 597-8964	Box 355 Vansant, VA 24656
B-15	Frene Tiller	Vansant, VA 24656
B-16	Thomas & Nadine Bailey Phone: 597-8531	Box 735 Vansant, VA 24656
B-17&18	Lorraine Ramey Phone: 597-8316	Box 485 Vansant, VA 24656
B-19	Dean Tiller Phone: 259-6275	Box 562 Vansant, VA 24656
B-20	Jeff Lester Phone: 597-2438	Box 512 Vansant, VA 24656
B-21	Tolbert & Donna Adkins Phone: 597-7841	Box 267 Vansant, VA 24656
B-22	Eugene & Betty Yates Phone: 597-8531	Box 735 Vansant, VA 24656
J-1	Hassel B. Shortridge Phone: 597-8326	Route 1, Box 95 Vansant, VA 24656
J-2	Larry Hargett Phone: 597-7336	Box 947 Vansant, VA 24656

APPENDIX B⁽³⁾

WATER SUPPLY INVENTORY LIST
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
DESKINS, BUCHANAN COUNTY, VIRGINIA
INVENTORY BY JEFF BOORD AND JOE PERRELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

<u>Map No.</u> ⁽⁴⁾	<u>Name</u>	<u>Address</u>
J-3	Mary Jane Shortridge	Box 95 Vansant, VA 24656
J-4	Bill Shortridge	Box 95 Vansant, VA 24656
J-5	Dorothy Church Phone: 597-8715	Box 535 Vansant, VA 24656
J-6	Gladys Price Phone: 597-7017	Box 98 Vansant, VA 24656
J-7	Lonnie & Jan Brown Phone: 597-8039	Route 1, Box 97A Vansant, VA 24656
J-8	William Riffe Phone: 597-7372	Route 1, Box 97 Vansant, VA 24656
J-9	Gerald & Melissa Kinser Phone: 597-8676	Box 909 Vansant, VA 24656
J-10	Bill & Merna Campbell Phone: 597-7830	Box 467 Vansant, VA 24656
J-11	Teddy Shortridge Phone: 597-8962	Route 1, Box 95 Vansant, VA 24656
J-12	Lawrence Cook Phone: 597-8248	Box 36 Vansant, VA 24656
J-13	Lawrence Cook	Box 36 Vansant, VA 24656
J-14	Lawrence Cook	Box 36 Vansant, VA 24656

APPENDIX B⁽¹⁾

WATER SUPPLY INVENTORY LIST
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D925BBUC
DESKINS, BUCHANAN COUNTY, VIRGINIA
INVENTORY BY JEFF BOORD AND JOE FERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

<u>Map No.</u> ^(a)	<u>Name</u>	<u>Address</u>
J-15	Omar Cox Phone: 597-7562	Box 274 Vansant, VA 24656
J-16	Alvin & Gay Cox Phone: 597-7687	Box 462 Vansant, VA 24656
J-17	Tim Bailey	General Delivery Vansant, VA 24656
J-18	Jimmy Cox Phone: 597-8911	Box 394 Vansant, VA 24656
J-19	Henry L. Jackson Phone: 597-7978	Box 116 Vansant, VA 24656
J-20	Lawrence Randall Jackson	General Delivery Vansant, VA 24656
J-21	Mike E. Young	Vansant, VA 24656
J-22	Jackie & Martha Owens	Vansant, VA 24656

^(a) Water supply inventory conducted by MSES Consultants, Inc., April 26 and 27, 1993. This water supply inventory is to supplement the original water supply inventory conducted by Island Creek Coal Company in March 1980.

^(b) The locations of the April 26 and 27, 1993 water supply inventory are shown on Drawing 91-56-1 Rev. 1.

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
V.P. NUMBER 5 MINE - PERMIT #0400552

Inventoried by: Bob Brown and Gerald Ramsey

PRIVATE WATER SUPPLY INVENTORY
3/18/80 - 3/20/80

	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8
Supply Use	Spring Domestic	Well Domestic	Well Domestic	Well Domestic	Well Domestic	Well Domestic	Well Domestic	Well Domestic
Total Depth	----	130	80	90	204	148	49.5	105
Case Depth	----	----	70	97	----	----	20	20
Well Diameter	----	6	6	6	6	6	6	6
Elevation	1505	1530	1520	1500	1500	1590	1520	1500
Year Drilled	----	1975	1965	1976	1976+	1970	1978	1970
Yield (gallons per minute)	2	4.8	----	----	----	----	----	----

	W-9	W-10	W-11	W-12	W-13	W-14	W-15	W-16
Supply Use	Well Domestic	Well Domestic	Well Domestic	Well Domestic	Well Domestic	Well Industrial	Well Domestic	Well Monitoring Piezometer
Total Depth	30	62	58	----	----	208	105	14
Case Depth	18	----	70	97	----	50	50	14
Well Diameter	6	6	6	----	----	8	8	2
Elevation	1510	1540	1570	1600	1590	1465	1420	1754
Year Drilled	1978	1970	1960	----	----	1976	1977	1976
Yield (gallons per minute)	----	----	----	----	----	25	200	----

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93

<u>Map No.</u>	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Supply	Neighbor/Tank	Well/Tank	Well
Supplier	A. Hagerman/Public Service Authority	----/PSA-S. Taylor	----
Use	Domestic	Non-drinking/domestic domestic	Domestic
Age (years)	----	----/----	15-20
Depth - Well	See B-2	40'/----	----
Depth - Water	See B-2		
Casing Type	See B-2	----/----	----
Casing Length	See B-2	Steel/----	Steel
Type of Pump	See B-2	Surface/----	Surface
Status	Active	Active/----	Temporary Inactive
No. of People	7	5	0

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFT BOORD AND JOE PERNELL
DATE: 4/25/93 THROUGH 4/27/93
(continued)

Map No.	B-4	B-5	B-6	B-7	B-8	B-9
Supply	Well	Well	Well	Neighbor	Well	Well
Supplier	----	----	----	C. Shortridge	----	----
Use	Non-drinking domestic	Domestic	Domestic	(See B-6)	Non-drinking domestic	Domestic
Age (years)	12-15	20±	46		30±	20±
Depth-Well	75'-80'	105'	200'	(See B-6)	67'	75'
Depth-Water	----	----	----	(See B-6)	33'	30'
Casing Type	Galvanized	Galvanized	Steel	(See B-6)	Galvanized	Steel
Casing Length	----	90'	100'	(See B-6)	35	----
Type of Pump	Submersible	Submersible	Submersible	(See B-6)	Submersible	Submersible
Status	Active	Active	Active	Active	Active	Dry
No. of People	1	2	7	2	2	2

Environmental & Engineering Consultants
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APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D925BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.	B-9A	B-10	B-11	B-12	B-13	B-14
Supply	Dug Well	Well	Dug Well	Spring	Well	Well
Supplier	----	----	Stream	Tank	----	----
Use	Consumption	Domestic	Domestic	Domestic	Non-drinking domestic	Domestic
Age	20±	40	45	27	15-20	----
Depth-Well	40'	35'	35'	----	----	70±
Depth-Water	15-20'	----	30'	----	----	----
Casing Type	Rock Lined	Galvanized	Rock Lined	----	----	----
Casing Length	----	----	----	----	----	70±
Type of Pump	Bail	Submersible	Surface	Surface to Tank	Submersible	Surface
Status	Active	Active	Active	Dry 2 years Now Stream-fed	Active	Active
No. of People	2	2	3	2	4	6

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VF NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.	B-15	B-16	B-17	B-18	B-19
Supply	----	Well/Neighbor	Neighbor	Well	Well
Supplier	----	----	L. Ramey	----	----
Use	----	Non-drinking domestic	Domestic	Domestic	Commercial
Age (years)	----	20/20	See B-18	7	4
Depth-Well	----	110' /----	See B-18	76'	150'
Depth-Water	----	90' /----	See B-18	----	----
Casing type	----	Steel /----	See B-18	Galvanized	Galvanized
Casing Length	----	---- /----	See B-18	----	----
Type of Pump	----	Submersible (2) /----	See B-18	Surface	Submersible
Status	----	Caved-inactive/Active	Dry - Temp.?	Dry - Temp.?	Dry - Temp.?
No. of People	----	2/2	0	10	3

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNEIL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

<u>Map No.</u>	<u>B-20</u>	<u>B-21</u>	<u>B-22</u>	<u>J-1</u>	<u>J-2</u>	<u>J-3</u>
Supply	Dug Well	Well	Well	Well	Well	Well
Supplier	----	----	----	----	----	----
Use	Domestic	Domestic	Non-drinking domestic	Domestic	Domestic	Domestic
Age (years)	3	4-5	20	20±	11±	20±
Depth-Well	20'	150'	125'	130'	360'	----
Depth-Water	10'	----	75-80'	----	----	----
Casing Type	Rock Lined	Galvanized	Galvanized	Steel	6" Steel	----
Casing Length	----	----	10'	----	----	----
Type of Pump	Shallow	Submersible	Submersible	Submersible	Submersible	Submersible
Status	Dry-Temp.?	Dry-Temp.?	Active	Dry-Temp.?	Dry-Temp.?	Active
No. of People	3	7	9 (3 houses)	2	7	1

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.	J-4	J-5	J-6	J-7	J-8	J-9
Supply	Well	Spring	Well	Well	Well	Well
Supplier	----	----	----	----	----	----
Use	Domestic	Domestic	Domestic	----	Domestic	Domestic
Age (years)	20+	15+	2	----	11+	10+
Depth-Well	----	----	222'	----	175'	400'
Depth-Water	----	----	----	----	----	----
Casing Type	Steel	----	Steel	----	Steel	Steel
Casing Length	----	----	----	----	----	----
Type of Pump	Submersible	Gravity	Submersible	----	Submersible	Submersible
Status	Inactive- Temp. 7	Active	Active	----	Active	Active
No. of People	0	2	2	----	2	9 (2 families)

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.	J-10	J-11	J-12	J-13	J-14	J-15
Supply	Spring	Well	Spring	Spring	Spring	Well
Supplier	Tank	----	Tank	Tank	Neighbor	----
Use	Domestic	Domestic	Domestic	Domestic	Domestic	Domestic
Age (years)	13	15	5	10±	See J-13	6±
Depth-Well	----	350'	----	----	See J-13	250'
Depth-Water	----	----	----	----	See J-13	----
Casing Type	----	Steel	----	----	See J-13	Steel
Casing Length	----	----	----	----	See J-13	----
Type of Pump	Pump to House	Submersible	Gravity	Gravity	See J-13	Submersible
Status	Active	Active	Active	Active	Active	Active
No. of People	4	3	2	3	----	2

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VF NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERNELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.	J-16	J-17	J-18	J-19	J-20	J-21
Supply	Well	Well	Well	Well	Well	----
Supplier	----	----	----	----	----	----
Use	Domestic	Domestic	Domestic	Domestic	Domestic	----
Age (years)	3	11±	11±	7±	----	----
Depth-Well	100'	85'±	125'	185'	----	----
Depth-Water	60'	----	----	----	----	----
Casing Type	Steel	Steel	Steel	Steel	----	----
Casing Length	----	----	----	----	----	----
Type of Pump	Submersible	Submersible	Submersible	Submersible	----	----
Status	Active	Active	Active	Active	New-Unused	Active
No. of People	3	----	4	2	----	----

APPENDIX B

SUMMARY OF SUPPLY CONSTRUCTION
VP NUMBER 5 MINE
PERMIT APPLICATION NUMBER VAS2D926BBUC
INVENTORY BY JEFF BOORD AND JOE PERMELL
DATE: 4/26/93 THROUGH 4/27/93
(continued)

Map No.

J-22

Supply	Neighbor
Supplier	G. Kinser
Use	Domestic
Age (years)	See J-9
Depth - Well	See J-9
Depth - Water	See J-9
Casing Type	See J-9
Casing Length	See J-9
Type of Pump	See J-9
Status	See J-9
No. of People	See J-9

APPENDIX C
WELL LOG DATA

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

SERIAL NUM:IC1092565-003-3.00

LOG# 1 EVENT 1 (VAL) 2 T: 24000.3 ID# 50

IDENTIFICATION SECTION

1. QUAD NAME: VNEWT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG TO #: 58
5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-81
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DOW: L-81

COORDINATES OF HOLE OR SECTION

12.1 STATE CODE: VAS
12.2 STATE PLANE N/S: 3674998.98
12.3 STATE PLANE E/W: 10433987.17
13.1 COMPANY GRID N/S: 27050.00
13.2 COMPANY GRID E/W: 14875.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCHANAN
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION: KEEN HWY., WTM

DRENDLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1602.10 DRILL ANGLE D.
2. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1732.000
26. BED CODE REGION IDENTIFIER: HAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: KEM
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
29.1 KIND OF RECORD: C
29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
30.1 UNITS OF MEASUREMENT: 1(FIF)
30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/20/87
LAST MODIFIED BY: DGL
DATE: 9/3/1992
USER DATA: 8.88' NET COAL >= 1.5'

LOG# 1 DYNST 1 VAL 1 2 1: 24000.1 10= SE

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		50.000	50.000
2	124	DRK GRY SH		59.000	9.000
3	322	DRK GRY SH+INTERBED SS		66.667	7.667
4	323	DRK GRY SH W/SS STKS		113.417	46.750
5	021	COMMON BANDED COAL		113.834	.417
* BED:KEN 10 KEN 10					
6	324	DRK GRY MASS SDY SH		133.751	19.917
7	544	GRY MASS SS		166.501	32.750
8	324	DRK GRY MASS SDY SH		219.168	52.667
9	021	COMMON BANDED COAL		219.751	.583
* BED:ALY 10 ALY 10					
10	124	DRK GRY SH		220.501	.750
11	544	GRY MASS SS		244.834	24.333
12	124	DRK GRY SH		245.647	.813
13	021	COMMON BANDED COAL		247.168	1.521
* BED:ALY 20 ALY 20					
14	124	DRK GRY SH		247.210	.042
15	544	GRY MASS SS		272.002	24.792
16	124	DRK GRY SH		295.919	23.917
17	544	GRY MASS SS		315.836	19.917
18	114	BLK SH		316.669	.833
19	021	COMMON BANDED COAL		318.127	1.458
* BED:RYN 20 RYN 20					
20	124	DRK GRY SH		325.252	7.125
21	030	IMPURE COAL		325.335	.083
22	544	GRY MASS SS		329.002	3.667
23	124	DRK GRY SH		334.752	5.750
24	544	GRY MASS SS		383.419	48.667
25	114	BLK SH		402.002	18.583
26	323	DRK GRY SH W/SS STKS		423.502	23.500
27	544	GRY MASS SS		466.252	40.750
28	124	DRK GRY SH		467.669	1.417
29	021	COMMON BANDED COAL		467.836	.167
* BED:JAM 20 JAM 20					
30	124	DRK GRY SH		470.003	2.167
31	544	GRY MASS SS		508.586	38.583
32	700	COL		512.753	4.167
33	544	GRY MASS SS		526.586	13.833
34	322	DRK GRY SH+INTERBED SS		531.003	4.417
35	323	DRK GRY SH W/SS STKS		536.586	5.583
36	322	DRK GRY SH+INTERBED SS		545.169	8.583
37	323	DRK GRY SH W/SS STKS		557.836	12.667
38	021	COMMON BANDED COAL		558.419	.583
* BED:TIL 20 TIL 20					
39	114	BLK SH		559.502	1.083
40	021	COMMON BANDED COAL		560.169	.667
* BED:TIL 30 TIL 30					
41	124	DRK GRY SH		561.002	.833
42	544	GRY MASS SS		583.252	22.250
43	324	DRK GRY MASS SDY SH		659.002	75.750

LOG# 1 TYNNT 3 TVAL 1 2 1: 34000.1 (D= 58

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
44	021	COMMON BANDED COAL		660.169	1.167
		* BED:USB 10 USB 10			
45	124	DRK GRY SH		667.066	6.917
46	544	GRY MASS SS		682.586	15.500
47	124	DRK GRY SH		683.169	.583
48	021	COMMON BANDED COAL		683.502	.333
		* BED:USB 20			
49	114	BLK SH		683.627	.125
50	021	COMMON BANDED COAL		683.752	.125
		* BED:USB 20			
51	324	DRK GRY MASS SDY SH		704.502	20.750
52	322	DRK GRY SH+INTERBED SS		750.002	45.500
53	544	HARD MASS SW		830.333	80.333
		* BED:MGA 0 MGA 0			
54	114	BLK SH		841.252	10.917
55	124	DRK GRY SH		914.502	73.250
56	322	DRK GRY SH+INTERBED SS		998.169	83.667
57	124	DRK GRY SH		998.502	.333
58	021	COMMON BANDED COAL		998.752	.250
		* BED:UNP 10			
59	034	STONE		998.877	.125
60	021	COMMON BANDED COAL		999.585	.708
		* BED:UNP 10			
61	114	BLK SH		1000.168	.583
62	544	GRY MASS SS		1023.668	23.500
63	124	DRK GRY SH		1024.001	.333
64	021	COMMON BANDED COAL		1024.834	.833
		* BED:UNP 20 UNP 20			
65	324	DRK GRY MASS SDY SH		1028.584	3.750
66	543	GRY SS W/SH STKS		1038.167	9.583
67	124	DRK GRY SH		1055.834	17.667
68	114	BLK SH		1056.084	.250
69	021	COMMON BANDED COAL		1056.251	.167
		* BED:MHP 10			
70	030	IMPURE COAL		1056.418	.167
		* BED:MHP 10			
71	114	BLK SH		1060.585	4.167
72	543	GRY SS W/SH STKS		1088.002	27.417
73	114	BLK SH		1134.502	46.500
74	540	GRY SS		1135.752	1.250
75	021	COMMON BANDED COAL		1135.833	.083
76	544	GRY MASS SS		1163.002	27.167
77	322	DRK GRY SH+INTERBED SS		1217.169	54.167
78	021	COMMON BANDED COAL		1217.669	.500
		* BED:LHP 10 LHP 10			
79	324	DRK GRY MASS SDY SH		1223.002	5.333
80	544	GRY MASS SS		1235.169	12.167
81	124	DRK GRY SH		1236.669	1.500
82	021	COMMON BANDED COAL		1237.252	.583
		* BED:LHP 20 LHP 20			

LOG#1 1 (VMSNT 1 (VA) 1 2 1: 24000.1 (D> 38

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
83	114	BLK SH		1237.419	.167
84	124	DRK GRY SH		1238.419	1.000
85	543	GRY SS W/SH STKS		1259.002	20.583
86	564	HARD MASS SS		1292.002	33.000
87	123	DRK GRY SH W/COAL STKS		1293.169	1.167
88	023	COAL W/BONE STKS		1294.669	1.500
		* BED:PC9 10			
89	123	DRK GRY SH W/COAL STKS		1296.002	1.333
90	029	COAL W/PYRITE STKS		1296.044	.042
91	021	COMMON BANDED COAL		1297.398	1.354
		* BED:PC9 10			
92	113	BLK SH W/COAL STKS		1297.690	.292
93	124	DRK GRY SH		1299.669	1.979
94	543	GRY SS W/SH STKS		1305.669	6.000
95	124	DRK GRY SH		1326.336	20.667
96	113	BLK SH W/COAL STKS		1328.086	1.750
97	021	COMMON BANDED COAL		1329.253	1.167
		* BED:PC9 20 PC9 20			
98	124	DRK GRY SH		1378.003	48.750
99	544	GRY MASS SS		1400.670	22.667
100	564	HARD MASS SS		1479.587	78.917
		* BED:LQA 0			
101	769	HARD SS W/COAL SPARS		1483.004	3.417
102	564	HARD MASS SS		1498.504	15.500
103	764	HARD QTZ PER CGL		1498.671	.167
104	564	HARD MASS SS		1516.171	17.500
105	764	HARD QTZ PER CGL		1526.671	10.500
106	563	HARD SS W/SH STKS		1531.338	4.667
107	764	HARD QTZ PER CGL		1560.235	28.917
108	564	HARD MASS SS		1570.005	9.750
109	764	HARD QTZ PER CGL		1580.338	10.333
110	124	DRK GRY SH		1580.505	.167
111	564	HARD MASS SS		1643.505	63.000
		* BED:LQA 0			
112	124	DRK GRY SH		1645.338	1.833
113	021	COMMON BANDED COAL		1645.463	.125
		* BED:PCA 20			
114	100	SH (UNDIF)		1645.546	.083
115	021	COMMON BANDED COAL		1645.754	.208
116	100	SH (UNDIF)		1645.921	.167
117	021	COMMON BANDED COAL		1646.254	.333
		* BED:PCA 20			
118	124	DRK GRY SH		1656.421	8.167
119	544	GRY MASS SS		1704.838	50.417
120	124	DRK GRY SH		1705.776	.938
121	021	COMMON BANDED COAL		1706.984	1.208
		* BED:PC3 10 PC3 10			
122	030	IMPURE COAL		1707.026	.042
123	021	COMMON BANDED COAL		1708.297	1.271
		* BED:PC3 20			

LOG# 1) (VMSMT 1 (VA) (2 1: 24000.) ID# 58

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
124	030	IMPURE COAL		1708.547	.250
125	114	BLK SH		1708.589	.042
126	030	IMPURE COAL		1708.693	.104
127	114	BLK SH		1708.797	.104
128	030	IMPURE COAL		1709.276	.479
129	021	COMMON BANDED COAL		1709.639	.563
130	030	IMPURE COAL		1709.891	.042
131	114	BLK SH		1710.006	.125
132	021	COMMON BANDED COAL		1710.402	.396
133	030	IMPURE COAL		1710.590	.188
134	021	COMMON BANDED COAL		1710.944	.354
		* BED:PCS 20			
135	100	SH (UNDIF)		1711.402	.458
136	021	COMMON BANDED COAL		1711.485	.083
		* BED:PCS 30			
137	114	BLK SH		1711.527	.042
138	021	COMMON BANDED COAL		1711.631	.104
139	030	IMPURE COAL		1711.694	.063
140	114	BLK SH		1711.777	.083
141	030	IMPURE COAL		1711.902	.125
		* BED:PCS 30			
142	100	SH (UNDIF)		1718.902	7.000
143	023	DRK GRY SH W/SS STKS		1731.985	13.083

LOG# 1 DWSMT 1 DIA 1 2 1: 24000.3 10# 34

IDENTIFICATION SECTION

1. QUAD NAME: VMSVT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 34
- 5.1 UNPUBLISHED RECORD: COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-83
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DGN# : L-83

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 5615426.76
- 12.3 STATE PLANE E/W: 10436206.54
- 15.1 COMPANY GRID N/S: 27595.33
- 15.2 COMPANY GRID E/W: 19081.37

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCKHORN
19. TOWNSHIP, MAGISTRIAL DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION: KEEN MTH., VA

WELL OR SECTION DESCRIPTION

11. ELEVATION AT TOP OF HOLE OR SECTION: F 1334.90 DRILL ANGLE: 0.
12. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1367.000
26. SED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: TIL
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCB
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF 1
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/12/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 14.66' NET COAL == 1.5'

LOG# 1 (VNSHT) 1 (VAL) 2 1: 24000.3 JD# 36

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		34.000	34.000
2	544	GRY MASS SS		63.167	29.167
3	124	DRK GRY SH		75.417	12.250
4	544	GRY MASS SS		123.667	48.250
5	700	DGL		126.250	2.583
6	124	DRK GRY SH		128.833	2.583
7	543	GRY SS W/SH STKS		150.166	21.333
8	124	DRK GRY SH		153.583	3.417
9	021	COMMON BANDED COAL		154.500	.917
* BED:TIL 20 TIL 20					
10	324	DRK GRY MASS SOY SH		156.833	1.833
11	544	GRY MASS SS		168.916	32.583
12	323	DRK GRY SH W/SS STKS		195.083	6.167
13	543	GRY SS W/SH STKS		199.250	4.167
14	322	DRK GRY SH+INTERBED SH		215.833	16.583
15	124	DRK GRY SH		249.916	34.083
16	021	COMMON BANDED COAL		250.083	.167
* BED:USB 10					
17	124	DRK GRY SH		250.125	.042
18	021	COMMON BANDED COAL		250.583	.458
19	124	DRK GRY SH		250.771	.188
20	021	COMMON BANDED COAL		250.875	.104
21	124	DRK GRY SH		251.125	.250
22	021	COMMON BANDED COAL		251.167	.042
* BED:USB 10					
23	124	DRK GRY SH		254.084	2.917
24	544	GRY MASS SS		273.292	19.208
25	021	COMMON BANDED COAL		273.667	.375
* BED:USB 20 USB 20					
26	324	DRK GRY MASS SOY SH		280.917	7.250
27	544	GRY MASS SS		301.667	20.750
28	544	HARD MASS SS		402.084	100.417
* BED:MGA 0 MGA 0					
29	021	COMMON BANDED COAL		402.501	.417
* BED:GYC 10					
30	034	BONE		402.605	.104
31	021	COMMON BANDED COAL		404.376	1.771
* BED:GYC 10					
32	544	GRY MASS SS		423.834	19.458
33	114	BLK SH		439.167	15.333
34	323	DRK GRY SH W/SS STKS		478.167	39.000
35	021	COMMON BANDED COAL		479.000	.833
* BED:WSB 10 WSB 10					
36	114	BLK SH		480.917	1.917
37	544	GRY MASS SS		506.209	25.292
38	021	COMMON BANDED COAL		506.376	.167
* BED:WSB 20					
39	114	BLK SH		510.168	3.792
7	021	COMMON BANDED COAL		510.418	.250
* BED:WSB 20					

LOOP: 1 INCHWT 1 DIA (2): 24000.1 ID= 34

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
<hr/>					
41	114	BLK SH		510.585	.167
42	544	GRY MASS SS		541.335	30.750
43	124	DRK GRY SH		548.168	6.833
44	544	GRY MASS SS		583.835	15.667
45	323	DRK GRY SH W/SS STKS		590.502	26.667
46	544	GRY MASS SS		597.002	6.500
47	313	BLK SH W/SS STKS		603.669	6.667
48	021	COMMON BANDED COAL		604.752	1.083
* BED:LHP 10 LHP 10					
49	114	BLK SH		607.252	2.500
50	544	GRY MASS SS		633.002	25.750
51	124	DRK GRY SH		634.419	1.417
52	021	COMMON BANDED COAL		636.086	1.667
* BED:LHP 20 LHP 20					
53	114	BLK SH		654.169	18.083
54	544	GRY MASS SS		660.002	5.833
55	124	DRK GRY SH		664.502	4.500
56	021	COMMON BANDED COAL		665.833	1.333
* BED:LHP 10 LHP 10					
57	124	DRK GRY SH		683.418	17.583
58	543	GRY SS W/SH STKS		702.833	19.417
59	544	GRY MASS SS		716.002	13.167
60	114	BLK SH		720.252	4.250
61	313	BLK SH W/SS STKS		752.502	32.250
62	543	GRY SS W/SH STKS		774.210	21.708
63	021	COMMON BANDED COAL		774.335	.125
* BED:LHC 10 LHC 10					
64	124	DRK GRY SH		781.377	7.042
65	114	BLK SH		782.377	1.000
66	021	COMMON BANDED COAL		782.344	.167
* BED:LHC 20 LHC 20					
67	544	GRY MASS SS		819.002	36.458
68	745	GRY ROCK PER COL		819.085	.083
69	114	BLK SH		822.585	3.500
70	324	DRK GRY MASS SDY SH		831.918	9.333
71	114	BLK SH		840.918	9.000
72	021	COMMON BANDED COAL		841.835	.917
* BED:LHP 20 LHP 20					
73	114	BLK SH		842.502	.667
74	543	GRY SS W/SH STKS		880.002	37.500
75	543	GRY SS W/SH STKS		893.002	13.000
76	324	DRK GRY MASS SDY SH		907.085	14.083
77	114	BLK SH		909.002	1.917
78	021	COMMON BANDED COAL		911.731	2.729
* BED:PC9 10 PC9 10					
79	114	BLK SH		912.064	.333
80	324	DRK GRY MASS SDY SH		944.002	31.938
81	114	BLK SH		944.752	.750
82	021	COMMON BANDED COAL		945.606	.854
* BED:PC9 20 PC9 20					

LOG#() DMSHT () CVAL (2 1: 24000.1 10# 34

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
83	114	BLK SH		945.856	.250
84	124	DRK GRY SH		949.856	4.000
85	324	DRK GRY MASS SDY SH		993.669	43.813
86	114	BLK SH		994.627	.958
87	124	DRK GRY SH		999.502	4.875
88	113	BLK SH W/COAL STKS		1001.419	1.917
89	124	DRK GRY SH		1002.836	1.417
90	543	GRY SS W/SH STKS		1021.669	18.833
91	124	DRK GRY SH		1021.711	.042
92	554	XTLIZED MASS SS		1029.003	7.292
* BED:LSA 0					
93	759	XTLIZED SS W/COAL SPARS		1030.003	1.000
94	543	GRY SS W/SH STKS		1032.503	2.500
95	323	DRK GRY SH W/SH STKS		1046.086	13.583
96	543	GRY SS W/SH STKS		1053.336	7.250
97	554	XTLIZED MASS SS		1054.003	.667
98	323	DRK GRY SH W/SH STKS		1057.753	3.750
99	554	XTLIZED MASS SS		1060.920	3.167
100	114	BLK SH		1061.087	.167
101	543	GRY SS W/SH STKS		1064.754	3.667
102	323	DRK GRY SH W/SH STKS		1066.337	1.583
103	554	XTLIZED MASS SS		1070.504	4.167
104	754	XTLIZED QTZ PER CGL		1071.129	.625
105	554	XTLIZED MASS SS		1101.004	29.875
106	564	HARD MASS SS		1119.421	18.417
107	768	HARD SS W/COAL BANDS		1119.588	.167
108	564	HARD MASS SS		1153.671	34.083
109	764	HARD QTZ PER CGL		1170.671	17.000
110	564	HARD MASS SS		1177.004	6.333
* BED:LSA 0					
111	544	GRY MASS SS		1178.004	1.000
112	114	BLK SH		1182.650	4.646
113	021	COMMON BANDED COAL		1183.713	1.063
* BED:PCS 10					
114	030	IMPURE COAL		1183.817	.104
115	021	COMMON BANDED COAL		1183.880	.063
* BED:PCS 10					
116	124	DRK GRY SH		1184.255	.375
117	028	COAL W/SH STKS		1184.432	.177
118	114	BLK SH		1184.682	.250
119	029	COAL W/PYRITE STKS		1186.338	1.656
* BED:PCS 20					
120	027	COAL W/SH LAYERS		1186.421	.083
* BED:PCS 20					
121	124	DRK GRY SH		1188.771	1.750
122	324	DRK GRY MASS SDY SH		1190.004	1.833
123	544	GRY MASS SS		1247.504	57.500
124	749	GRY SS W/COAL SPARS		1250.171	2.667
125	124	DRK GRY SH		1251.671	1.500
126	021	COMMON BANDED COAL		1251.879	.208
* BED:PCA 10					

LOG#() DVSNT () IVA() Z 1: 24000.1 ID# 34

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
<hr/>					
127	124	DRK GRY SH		1251.983	.104
128	021	COMMON BANDED COAL		1252.046	.063
129	124	DRK GRY SH		1252.129	.083
130	021	COMMON BANDED COAL		1252.337	.208
131	114	BLK SH		1252.420	.083
132	021	COMMON BANDED COAL		1253.253	.833
* BED:PC4 10					
133	324	DRK DRY MASS SDY SH		1265.753	12.500
134	027	COAL W/SH LAYERS		1266.086	.333
* BED:PC4 20 PC6 20					
135	324	DRK DRY MASS SDY SH		1302.888	36.802
136	030	IMPURE COAL		1302.930	.042
* BED:PC3 10					
137	028	COAL W/SH LAYERS		1302.972	.042
138	021	COMMON BANDED COAL		1303.368	.396
139	021	COMMON BANDED COAL		1303.431	.063
140	021	COMMON BANDED COAL		1304.181	.750
* BED:PC3 10					
141	124	DRK GRY SH		1304.223	.042
142	021	COMMON BANDED COAL		1304.806	.583
* BED:PC3 20					
143	021	COMMON BANDED COAL		1305.460	.654
144	030	IMPURE COAL		1305.723	.063
145	021	COMMON BANDED COAL		1307.765	2.042
146	114	BLK SH		1307.807	.042
147	030	IMPURE COAL		1307.974	.167
148	021	COMMON BANDED COAL		1308.037	.063
149	030	IMPURE COAL		1308.100	.063
* BED:PC3 20					
150	114	BLK SH		1308.517	.417
151	030	IMPURE COAL		1308.559	.042
* BED:PC3 30					
152	029	COAL W/PYRITE STRS		1308.726	.167
153	030	IMPURE COAL		1308.768	.042
154	021	COMMON BANDED COAL		1308.851	.083
155	030	IMPURE COAL		1308.955	.104
* BED:PC3 30					
156	124	DRK GRY SH		1318.372	9.417
157	323	DRK GRY SH+INTERBED SS		1332.955	14.583
158	124	DRK GRY SH		1340.622	7.667
159	021	COMMON BANDED COAL		1340.705	.083
160	124	DRK GRY SH		1343.747	3.042
161	027	COAL W/SH LAYERS		1344.289	.542
* BED:PC2 10					
162	021	COMMON BANDED COAL		1344.789	.500
* BED:PC2 10					
163	124	DRK GRY SH		1351.872	7.083
164	544	GRY MASS SS		1360.205	8.333
165	124	DRK GRY SH		1366.955	6.750

LOG#1 1 IVKBT 1 IVA3 (2 1: 24000.1 10= 37

IDENTIFICATION SECTION

1. QUAD NAME: VISUIT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 37
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
5. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-86
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY OSHA: L-86

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VA
- 12.2 STATE PLANE N/S: 3611983.99
- 12.3 STATE PLANE E/W: 10439159.41
- 15.1 COMPANY GRID N/S: 24180.00
- 15.2 COMPANY GRID E/W: 20130.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: SULLYMAN
19. TOWNSHIP, PARISH/DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION: KEEN MTN., VA

HOLE OR SECTION DESCRIPTION

11. ELEVATION AT TOP OF HOLE OR SECTION: F 1409.10 DRILL ANGLE: 0.
12. METHOD OF ELEVATION DETERMINATION: 3
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1957
25. TOTAL DEPTH OF DRILL HOLE: F 1576.100
26. BED CODE REGION IDENTIFIER: RAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JAW
28. CODE OF LOWERMOST IDENTIFIABLE BED: R/O
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/13/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 21.34' NET COAL >= 1.5'

LOG# 1 (VNSMT) 1 (VA) E 2 7: 24000.1 ID# 37

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING ON SURFACE		32.000	32.000
2	021	COMMON BANDED COAL		32.333	.333
		* BED:JAM 10 JAM 10			
3	124	DRK GRV SH		36.833	4.500
4	544	GRV MASS SS		79.000	42.167
5	124	DRK GRV SH		91.000	12.000
6	544	GRV MASS SS		121.458	30.458
7	021	COMMON BANDED COAL		121.500	.042
8	544	GRV MASS SS		130.000	8.500
9	124	DRK GRV SH		133.417	3.417
10	021	COMMON BANDED COAL		133.500	.083
		* BED:TIL 10 TIL 10			
11	124	DRK GRV SH		136.500	3.000
12	543	GRV SH W/SH STRS		152.583	16.083
13	124	DRK GRV SH		166.000	13.417
14	323	DRK GRV SH W/SS STRS		169.667	3.667
15	544	GRV MASS SS		191.917	22.250
16	323	DRK GRV SH W/SS STRS		264.659	72.742
17	021	COMMON BANDED COAL		265.001	.342
		* BED:USB 10 USB 10			
18	322	DRK GRV SH+INTERBED SS		283.751	18.750
19	544	GRV MASS SS		294.751	11.000
20	114	BLK SH		297.418	2.667
21	322	DRK GRV SH+INTERBED ST		301.085	3.667
22	034	BONE		301.252	.167
		* BED:VSB 20			
23	021	COMMON BANDED COAL		301.294	.042
		* BED:USB 20			
24	544	GRV MASS SS		365.002	63.708
25	544	GRV MASS SS		409.523	44.521
26	021	COMMON BANDED COAL		409.961	.438
		* BED:GYC 10			
27	124	DRK GRV SH		410.096	.135
28	021	COMMON BANDED COAL		410.148	.052
29	124	DRK GRV SH		410.252	.104
30	027	COAL W/SH LAYERS		410.440	.188
31	021	COMMON BANDED COAL		411.669	1.229
		* BED:GYC 10			
32	544	GRV MASS SS		439.336	27.667
33	114	BLK SH		454.003	14.667
34	313	BLK SH W/SS STRS		460.003	6.000
35	543	GRV SS W/SH STRS		498.253	38.250
36	021	COMMON BANDED COAL		498.670	.417
		* BED:MSB 10 MSB 10			
37	124	DRK GRV SH		509.670	2.000
38	543	GRV SS W/SH STRS		508.037	7.417
39	124	DRK GRV SH		522.254	14.167
40	021	COMMON BANDED COAL		522.504	.250
		* BED:MSB 20 MSB 20			
41	324	DRK GRV MASS SOY SH		545.337	22.833

LOG#(1 (VNSBT 1 (VAT 1 2 1: 24000.) 10= 37

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
42	544	GRY MASS SS		587.504	42.167
43	543	GRY SS W/SH STKS		594.004	8.500
44	323	DRK GRY SH W/SS STKS		615.004	21.000
45	021	COMMON BANDED COAL		615.337	.333
		* BED:UNP TO UNP 10			
46	323	DRK GRY SH W/SS STKS		621.837	6.500
47	544	GRY MASS SS		628.004	6.167
48	749	GRY SS W/COAL SPARS		644.004	16.000
49	544	GRY MASS SS		645.004	1.000
50	124	DRK GRY SH		646.004	1.000
51	021	COMMON BANDED COAL		647.571	1.667
		* BED:UNP 20 UNP 20			
52	323	DRK GRY SH W/SS STKS		655.338	7.667
53	543	GRY SS W/SH STKS		680.005	24.667
54	124	DRK GRY SH		684.005	4.000
55	723	DRK GRY SH W/COAL STKS		684.838	.833
56	021	COMMON BANDED COAL		686.255	1.417
		* BED:UNP 10 UNP 10			
57	114	BLK SH		687.005	.750
58	543	GRY SS W/SH STKS		726.838	39.833
59	114	BLK SH		744.005	17.167
60	373	BLK SH W/SS STKS		782.130	38.125
61	021	COMMON BANDED COAL		783.838	1.708
		* BED:UNP 10			
62	113	BLK SH W/COAL STKS		784.963	1.125
63	021	COMMON BANDED COAL		785.046	.083
64	113	BLK SH W/COAL STKS		785.588	.542
65	028	COAL W/SH STKS		786.005	.417
		* BED:UNP 10			
66	322	DRK GRY SH+INTERBED SH		798.838	12.833
67	033	SS+COAL STKS		799.005	.167
		* BED:UNP 20			
68	021	COMMON BANDED COAL		799.588	.583
		* BED:UNP 20			
69	124	DRK GRY SH		801.838	2.250
70	544	GRY MASS SS		825.838	24.000
71	124	DRK GRY SH		830.671	4.833
72	543	GRY SS W/SH STKS		845.588	14.917
73	124	DRK GRY SH		852.005	6.417
74	034	BONE		852.588	.083
		* BED:UNP 20			
75	021	COMMON BANDED COAL		853.630	1.042
		* BED:UNP 20			
76	123	DRK GRY SH W/COAL STKS		853.922	.292
77	124	DRK GRY SH		854.339	.417
78	322	DRK GRY SH+INTERBED SH		885.006	31.667
79	323	DRK GRY SH W/SS STKS		910.173	24.167
80	021	COMMON BANDED COAL		911.173	1.000
		* BED:PC9 TO PC9 10			
81	123	DRK GRY SH W/COAL STKS		911.306	.333

LOG# 1 DMSVT 1 VAL 1.2 1: 24000.1 10= 37

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
82	323	DRK GRY SH W/SS STKS		936.173	24.667
83	322	DRK GRY SH+INTERBED SS		946.006	9.833
84	124	DRK GRY SH		955.089	9.083
85	021	COMMON BANDED COAL		955.589	.500
		* BED:PC9 20 PC9 20			
86	323	DRK GRY SH W/SS STKS		986.006	30.417
87	322	DRK GRY SH+INTERBED SH		1063.006	77.000
88	564	HARD MASS SS		1151.423	88.417
		* BED:LQA 0			
89	314	BLK MASS SDY SH		1155.754	4.333
90	764	HARD QTZ PEB CGL		1156.006	.250
91	754	XTLIZED QTZ PEB CGL		1176.006	20.000
92	313	BLK SH W/SS STKS		1178.006	2.000
93	754	XTLIZED QTZ PEB CGL		1178.339	.333
94	564	HARD MASS SS		1208.589	30.250
95	754	XTLIZED QTZ PEB CGL		1209.589	1.000
		* BED:LQA 0			
96	564	GRY MASS SS		1210.422	.833
97	312	BLK SH+INTERBED SS		1216.005	5.583
98	114	BLK SH		1218.713	2.708
99	021	COMMON BANDED COAL		1219.817	1.104
		* BED:PCS 10			
100	124	DRK GRY SH		1220.025	.208
101	021	COMMON BANDED COAL		1220.046	.021
		* BED:PCS 10			
102	124	DRK GRY SH		1221.442	1.396
103	021	COMMON BANDED COAL		1221.795	.313
		* BED:PCS 20			
104	034	BONE		1221.807	.052
105	021	COMMON BANDED COAL		1224.005	2.198
		* BED:PCS 20			
106	124	DRK GRY SH		1227.338	3.333
107	322	DRK GRY SH+INTERBED SS		1264.171	36.833
108	324	DRK GRY MASS SDY SH		1266.421	2.250
109	564	GRY MASS SS		1267.838	1.417
110	322	DRK GRY SH+INTERBED SS		1271.838	4.000
111	313	BLK SH W/SS STKS		1276.526	4.688
112	021	COMMON BANDED COAL		1276.984	.458
		* BED:PCA 10 PCA 10			
113	124	DRK GRY SH		1277.026	.042
114	021	COMMON BANDED COAL		1282.505	5.479
		* BED:PCA 20 PCA 20			
115	543	GRY SS W/SH STKS		1300.130	17.625
116	124	DRK GRY SH		1300.922	.792
117	030	IMPURE COAL		1300.964	.042
		* BED:PCS 10			
118	021	COMMON BANDED COAL		1302.214	1.250
		* BED:PCS 10			
9	124	DRK GRY SH		1302.360	.146
20	114	BLK SH		1302.361	.021

LOG#1 1 EVENT 1 DIA (2): 24000.1 10= 37

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
121	021	COMMON BANDED COAL		1302.485	.104
		* BED:PC3 20			
122	030	IMPURE COAL		1302.568	.083
123	021	COMMON BANDED COAL		1303.631	1.063
124	030	IMPURE COAL		1303.756	.125
125	021	COMMON BANDED COAL		1304.569	.813
126	124	DRK GRY SH		1304.590	.021
127	021	COMMON BANDED COAL		1305.632	1.042
128	030	IMPURE COAL		1305.736	.104
129	021	COMMON BANDED COAL		1305.924	.186
		* BED:PC3 20			
130	322	DRK GRY SH+INTERBED SS		1315.757	9.833
131	543	GRY SS W/SH STKS		1332.757	17.000
132	124	DRK GRY SH		1336.090	3.333
133	021	COMMON BANDED COAL		1336.132	.042
		* BED:PC2 10 PC2 10			
134	124	DRK GRY SH		1340.132	4.000
135	020	COAL		1340.340	.208
		* BED:PC2 20 PC2 20			
136	124	DRK GRY SH		1343.090	2.750
137	127	DRK GRY FIRECLAY		1347.007	3.917
138	322	DRK GRY SH+INTERBED SS		1357.007	10.000
139	322	DRK GRY SH+INTERBED SS		1388.007	31.000
140	543	HARD SS W/SH STKS		1435.007	47.000
141	560	HARD SS		1487.507	52.500
142	544	GRY MASS SS		1512.840	25.333
143	323	DRK GRY SH W/SH STKS		1518.007	5.167
144	544	GRY MASS SS		1545.257	27.250
145	124	DRK GRY SH		1555.007	9.750
146	544	GRY MASS SS		1562.507	7.500
147	322	DRK GRY SH+INTERBED SS		1567.174	4.667
148	124	DRK GRY SH		1571.591	4.417
149	164	RED SH		1576.008	4.417
		* BED:R/G 0			

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

SERIAL NUM:1C1092686-003-3.00

LOG#1 3 IVMSMT 1 (VA) (2 1) 24000.3 10= 50

IDENTIFICATION SECTION

1. QUAD NAME: VMSMT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 50
5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-87
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DOWN: L-87

COORDINATES OF HOLE OR SECTION

12.1 STATE CODE: VAB
12.2 STATE PLANE N/S: 3614063.73
12.3 STATE PLANE E/W: 10430760.27
15.1 COMPANY GRID N/S: 26025.00
15.2 COMPANY GRID E/W: 11675.00

CIVIL DISTRICT WHERE LOCATED

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

WELL OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 2104.90 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: 9
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR REAMERED: 1958
25. TOTAL DEPTH OF DRILL HOLE: F 2311.200
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: MHH
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC2
29.1 KIND OF RECORD: C
29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
30.1 UNITS OF MEASUREMENT: 1(FIF 1
30.2 METHOD(S) OF MEASUREMENT: 1(THK 1

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/18/87
LAST MODIFIED BY: DGL
DATE: 9/3/1992
USER DATA: 14.471 NET DGL => 1.51

LOG# 1 (VNGT 2 (VAC) (2 7: 24000.) 10= 50

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE			
2	544	GRY MASS SS		25.000	25.000
3	324	DRK GRY MASS SDY SH		36.083	11.083
4	322	DRK GRY SH+INTERBED SS		41.583	5.500
5	324	DRK GRY MASS SDY SH		63.500	21.917
6	020	COAL		116.917	53.417
7	324	DRK GRY MASS SDY SH		117.417	.500
8	544	GRY MASS SS		118.834	1.417
9	322	DRK GRY SH+INTERBED SS		136.001	17.167
10	324	DRK GRY MASS SDY SH		156.001	20.000
11	114	BLK SH		168.334	12.333
12	028	COAL W/SH STKS		168.397	.063
		* BED:NRN 10		169.001	.604
13	021	COMMON BANDED COAL		170.668	1.667
		* BED:NRN 10			
14	324	DRK GRY MASS SDY SH		171.418	.750
15	543	GRY SS W/SH STKS		183.501	12.083
16	544	GRY MASS SS		269.334	85.833
17	124	DRK GRY SH		269.917	.583
18	021	COMMON BANDED COAL		271.334	1.417
		* BED:NGY 10 NRY 10			
19	749	GRY SS W/COAL SPARS		271.501	.167
20	544	GRY MASS SS		320.668	49.167
21	021	COMMON BANDED COAL		320.751	.083
		* BED:SPD 0			
22	749	GRY SS W/COAL SPARS		324.001	3.250
23	324	DRK GRY MASS SDY SH		324.293	.292
24	021	COMMON BANDED COAL		324.376	.083
25	114	BLK SH		324.459	.083
26	021	COMMON BANDED COAL		324.834	.375
27	324	DRK GRY MASS SDY SH		325.251	.417
28	021	COMMON BANDED COAL		326.188	.917
29	114	BLK SH		326.293	.125
30	027	COAL W/SH LAYERS		326.439	.146
31	021	COMMON BANDED COAL		327.127	.688
32	114	BLK SH		327.169	.042
33	021	COMMON BANDED COAL		327.336	.167
34	030	IMPURE COAL		327.440	.104
35	114	BLK SH		327.919	.479
36	020	COAL		328.086	.167
37	114	BLK SH		329.044	.958
38	021	COMMON BANDED COAL		329.086	.042
39	114	BLK SH		329.586	.500
40	324	DRK GRY MASS SDY SH		334.003	4.417
41	113	BLK SH W/COAL STKS		334.170	.167
42	124	DRK GRY SH		336.378	2.208
43	021	COMMON BANDED COAL		336.586	.208
44	124	DRK GRY SH		337.419	.833
45	021	COMMON BANDED COAL		337.544	.125
46	124	DRK GRY SH		339.127	1.583

LOG#1 1 TWENTY 1 DIA 1 2 1: 24000.1 10+ 30

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
47	021	COMMON BANDED COAL		339.335	.208
		* BED:SPD 0			
48	124	DRK GRY SH		354.335	15.000
49	544	GRY MASS SS		390.002	35.667
50	323	DRK GRY SH W/SS STKS		433.169	43.167
51	021	COMMON BANDED COAL		433.586	.417
52	124	DRK GRY SH		456.003	22.417
53	544	GRY MASS SS		474.003	18.000
54	124	DRK GRY SH		523.253	109.250
55	543	GRY SS W/SH STKS		602.636	19.383
56	323	DRK GRY SH W/SS STKS		619.919	17.083
57	021	COMMON BANDED COAL		620.336	.417
		* BED:KEN 5 KEN 5			
58	544	GRY MASS SS		641.503	21.167
59	324	DRK GRY MASS SDY SH		643.003	1.500
60	021	COMMON BANDED COAL		643.836	.833
		* BED:KEN 70 KEN 10			
61	324	DRK GRY MASS SDY SH		645.636	2.000
62	544	GRY MASS SS		702.086	56.250
63	324	DRK GRY MASS SDY SH		746.503	44.417
64	021	COMMON BANDED COAL		747.003	.500
		* BED:ALY 10 ALY 10			
65	324	DRK GRY MASS SDY SH		750.920	3.917
66	322	DRK GRY SH+INTERBED SS		775.587	24.667
67	114	BLK SH		776.254	.667
68	021	COMMON BANDED COAL		777.127	.917
		* BED:ALY 20 ALY 20			
69	114	BLK SH		780.504	3.333
70	030	IMPURE COAL		780.671	.167
71	114	BLK SH		781.254	.583
72	544	GRY MASS SS		792.254	11.000
73	124	DRK GRY SH		800.587	17.333
74	114	BLK SH		820.254	10.667
75	322	DRK GRY SH+INTERBED SS		828.254	8.000
76	544	GRY MASS SS		836.004	7.750
77	543	GRY SS W/SH STKS		854.504	16.500
78	123	DRK GRY SH W/COAL STKS		854.671	.167
79	021	COMMON BANDED COAL		856.588	1.917
		* BED:RYN 20 RYN 20			
80	114	BLK SH		858.255	1.667
81	021	COMMON BANDED COAL		858.338	.083
82	114	BLK SH		858.630	.292
83	021	COMMON BANDED COAL		858.797	.167
84	327	DRK GRY SDY FIRECLAY		861.255	2.458
85	021	COMMON BANDED COAL		861.338	.083
86	324	DRK GRY MASS SDY SH		863.171	1.833
87	030	IMPURE COAL		863.463	.292
88	324	DRK GRY MASS SDY SH		869.505	6.042
89	544	GRY MASS SS		909.005	39.500
90	114	BLK SH		952.172	43.167

LOG#1 I (VNSHT 1 (VAL (2 1: 24000.3 10= 50

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
91	324	DRK GRV MASS BOY SH		952.422	.250
92	021	COMMON BANDED COAL		953.505	1.083
		* BED:JAM TO JAM 10			
93	324	DRK GRV MASS BOY SH		967.255	13.750
94	544	GRV MASS SS		996.255	29.000
95	124	DRK GRV SH		998.255	2.000
96	021	COMMON BANDED COAL		998.818	.563
		* BED:JAM 20			
97	124	DRK GRV SH		998.881	.083
98	021	COMMON BANDED COAL		999.860	.979
		* BED:JAM 20			
99	124	DRK GRV SH		1001.256	1.396
100	544	GRV MASS SS		1006.089	4.833
101	749	GRV SS W/COAL SPARS		1033.589	27.500
102	544	GRV MASS SS		1035.422	1.833
103	749	GRV SS W/COAL SPARS		1053.005	19.583
104	114	BLK SH		1102.672	47.667
105	021	COMMON BANDED COAL		1103.255	.583
		* BED:TIL 20 TIL 20			
106	124	DRK GRV SH		1104.005	.750
107	544	GRV MASS SS		1109.588	5.583
108	323	DRK GRV SH W/SS STKS		1167.588	78.000
109	114	BLK SH		1193.305	2.917
110	021	COMMON BANDED COAL		1191.338	.833
		* BED:USB 10 USB 10			
111	124	DRK GRV SH		1195.255	3.917
112	544	GRV MASS SS		1209.505	14.250
113	124	DRK GRV SH		1213.922	4.417
114	021	COMMON BANDED COAL		1214.089	.167
		* BED:USB 20 USB 20			
115	124	DRK GRV SH		1216.256	2.167
116	322	DRK GRV SH+INTERBED SS		1259.089	22.833
117	323	DRK GRV SH W/SS STKS		1265.422	6.333
118	124	DRK GRV SH		1250.255	4.833
119	544	HARD MASS SS		1355.588	105.333
		* BED:MOA 0			
120	021	COMMON BANDED COAL		1355.671	.083
		* BED:GYC 10 GYC 10			
121	544	HARD MASS SS		1356.588	.917
122	544	GRV MASS SS		1366.755	10.167
123	124	DRK GRV SH		1414.338	47.583
124	021	COMMON BANDED COAL		1415.567	1.229
		* BED:MSB 10 MSB 10			
125	124	DRK GRV SH		1418.588	3.021
126	544	GRV MASS SS		1439.836	21.250
127	028	COAL W/SH STKS		1440.171	.333
		* BED:MSB 20			
128	124	DRK GRV SH		1440.671	.500
129	028	COAL W/SH STKS		1441.067	.396
130	543	GRV SS W/SH STKS		1441.400	.333

LOG# [1] DYNST [1] IVA [1] 2 1: 24000.1 TO= 50

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
131	021	COMMON BANDED COAL		1441.567	.167
		* BED:MSB 20			
132	343	GRY SS W/SH STKS		1518.005	76.438
133	114	BLK SH		1522.838	4.833
134	021	COMMON BANDED COAL		1523.880	1.042
		* BED:UNP 10 UNP 10			
135	124	DRK GRY SH		1526.088	2.208
136	544	GRY MASS SS		1538.088	12.000
137	124	DRK GRY SH		1558.005	19.917
138	544	GRY MASS SS		1577.005	19.000
139	124	DRK GRY SH		1590.172	13.167
140	123	DRK GRY SH W/COAL STKS		1590.339	.167
141	021	COMMON BANDED COAL		1591.152	.813
		* BED:WHP 10			
142	124	DRK GRY SH		1591.235	.083
143	021	COMMON BANDED COAL		1591.568	.333
144	124	DRK GRY SH		1591.693	.125
145	021	COMMON BANDED COAL		1591.922	.229
		* BED:WHP 10			
146	124	DRK GRY SH		1593.755	1.833
147	544	GRY MASS SS		1620.755	27.000
148	114	BLK SH		1668.255	47.500
149	322	DRK GRY SH+INTERBED SS		1678.505	10.250
150	114	BLK SH		1685.505	7.000
151	021	COMMON BANDED COAL		1685.713	.208
		* BED:WRC 10			
152	324	DRK GRY MASS SDY SH		1685.776	.063
153	021	COMMON BANDED COAL		1685.901	.125
154	030	CHLURE COAL		1686.068	.167
155	021	COMMON BANDED COAL		1686.214	.146
		* BED:WRC 10			
156	124	DRK GRY SH		1689.256	3.042
157	113	BLK SH W/COAL STKS		1689.423	.167
158	124	DRK GRY SH		1690.340	.917
159	021	COMMON BANDED COAL		1690.423	.083
160	323	DRK GRY SH W/SH STKS		1706.673	16.250
161	114	BLK SH		1708.340	1.667
162	021	COMMON BANDED COAL		1708.465	.125
		* BED:WRC 20 WRC 20			
163	127	DRK GRY FIRECLAY		1710.673	2.208
164	544	GRY MASS SS		1738.006	27.333
165	021	COMMON BANDED COAL		1738.756	.750
		* BED:LHP 10 LHP 10			
166	312	BLK SH+INTERBED SS		1744.006	5.250
167	544	GRY MASS SS		1758.006	14.000
168	114	BLK SH		1758.589	.583
169	021	COMMON BANDED COAL		1760.152	1.563
		* BED:LHP 20 LHP 20			
170	114	BLK SH		1761.423	1.271
171	543	GRY SS W/SH STKS		1803.423	42.000

LOG#1 1 (VMSVT 1 (VAL 1 2 1: 26000.1 10# 50

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
<hr/>					
172	544	GRY MASS SS		1810.340	6.917
173	114	BLK SH		1812.757	2.417
174	030	IMPURE COAL		1813.007	.250
		* BED:PCS 10			
175	021	COMMON BANDED COAL		1814.590	1.583
176	113	BLK SH W/COAL STKS		1814.861	.271
177	021	COMMON BANDED COAL		1816.090	1.229
		* BED:PCS 10			
178	114	BLK SH		1816.423	2.333
179	544	GRY MASS SS		1843.173	26.750
180	563	GRY SS W/SH STKS		1851.423	8.250
181	324	DRK GRY MASS SDY SH		1857.173	5.750
182	114	BLK SH		1857.256	.083
183	021	COMMON BANDED COAL		1858.756	1.500
		* BED:PCS 20 PCS 20			
184	124	DRK GRY SH		1858.905	.129
185	114	BLK SH		1860.923	1.938
186	324	DRK GRY MASS SDY SH		1878.360	17.417
187	564	HARD MASS SS		1906.423	28.063
		* BED:LOA 0			
188	544	GRY MASS SH		1928.173	21.750
189	324	DRK GRY MASS SDY SH		1962.173	34.000
190	564	HARD MASS SS		2040.173	78.000
191	764	HARD QTZ FIB CGL		2053.923	13.750
192	124	DRK GRY SH		2059.423	5.500
193	764	HARD QTZ PEB CGL		2074.360	14.917
194	564	HARD MASS SS		2163.860	89.500
		* BED:LOA 0			
195	544	GRY MASS SS		2172.090	8.250
196	324	DRK GRY MASS SDY SH		2173.673	3.583
197	123	DRK GRY SH W/COAL STKS		2177.840	2.167
198	021	COMMON BANDED COAL		2181.590	3.750
		* BED:PCS 20 PCS 20			
199	114	BLK SH		2182.423	.833
200	544	GRY MASS SS		2221.340	38.917
201	324	DRK GRY MASS SDY SH		2230.486	9.146
202	030	IMPURE COAL		2230.507	.021
		* BED:PCS 10			
203	021	COMMON BANDED COAL		2231.528	1.021
		* BED:PCS 10			
204	113	BLK SH W/COAL STKS		2231.570	.042
205	124	DRK GRY SH		2231.633	.063
206	021	COMMON BANDED COAL		2232.966	1.333
		* BED:PCS 20			
207	030	IMPURE COAL		2233.156	.188
208	021	COMMON BANDED COAL		2233.342	.188
209	030	IMPURE COAL		2233.425	.083
210	114	BLK SH		2233.550	.125
1	022	COAL W/BONE LAYERS		2234.092	.542
2	021	COMMON BANDED COAL		2235.342	1.250
		* BED:PCS 20			

LOG#C 1 [VNSMT 1 [VX] [2 1: 24000.] 10= 50

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
213	114	BLK SH		2235.653	.313
214	030	IMPURE COAL		2235.876	.021
		* BED:PC3 30			
215	021	COMMON BANDED COAL		2236.197	.521
216	124	DRK GRY SH		2236.780	.583
217	021	COMMON BANDED COAL		2236.863	.083
		* BED:PC3 30			
218	124	DRK GRY SH		2241.446	4.583
219	030	IMPURE COAL		2241.529	.083
220	324	DRK GRY MASS BDY SH		2246.196	4.567
221	123	DRK GRY SH W/COAL STRK		2246.329	.333
222	124	DRK GRY SH		2255.029	8.500
223	113	BLK SH W/COAL STRK		2256.029	1.000
224	021	COMMON BANDED COAL		2256.071	.042
		* BED:PC2 10 PC2 10			
225	124	DRK GRY SH		2259.779	3.708
226	030	IMPURE COAL		2259.946	.167
		* BED:PC2 20 PC2 20			
227	124	DRK GRY SH		2276.446	16.500
228	322	DRK GRY SH+INTERBED 30		2311.196	34.750

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

SERIAL NUM:IC1092686-003-3.00

LOG# 1 TVNMT 1 IVA? 1 2 1 24000.1 10 60

IDENTIFICATION SECTION

1. QUAD NAME: VNMT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 60
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-96
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DDW#: L-96

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VA8
- 12.2 STATE PLANE N/S: 3608794.28
- 12.3 STATE PLANE E/W: 10430513.27
- 15.1 COMPANY GRID N/S: 20750.00
- 15.2 COMPANY GRID E/W: 11975.00

CIVIL DISTRICT WHERE LOCATED

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

REHOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1651.90 DRILL ANGLE: 0.
2. METHOD OF ELEVATION DETERMINATION: 9
23. NAME OF PERSON LOGGING: JOT
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1780.100
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: ALV
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/23/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 4.68' NET CORAL >= 1.5'

LOG# 1 EVENT 3 (VAL 1 2 1: 24000.3 10= 60

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING ON SURFACE		33.417	33.417
2	324	DRK GRY MASS SDY SH		107.084	73.667
3	544	GRY MASS SS		130.334	23.250
4	113	BLK SH W/COAL STKS		130.917	.583
5	544	GRY MASS SS		178.854	47.917
6	749	GRY SS W/COAL SPARS		180.001	1.167
7	544	GRY MASS SS		184.291	4.250
8	323	DRK GRY SH W/SS STKS		235.334	51.043
9	021	COMMON BANDED COAL		235.751	.417
* BED:ALY 10 ALY 10					
10	324	DRK GRY MASS SDY SH		237.634	2.083
11	544	GRY MASS SS		271.251	33.417
12	543	GRY SH W/SH STKS		272.334	1.083
13	124	DRK GRY SH		273.688	1.354
14	021	COMMON BANDED COAL		273.188	1.500
* BED:ALY 20 ALY 20					
15	023	COAL W/BONE STKS		273.501	.313
* BED:ALY 0					
16	114	BLK SH		278.001	.500
17	322	DRK GRY SH+INTERBED SS		296.001	20.000
18	314	BLE MASS SDY SH		309.168	13.167
19	324	DRK GRY MASS SDY SH		317.918	8.750
20	544	GRY MASS SS		336.001	18.083
21	124	DRK GRY SH		344.001	8.000
22	021	COMMON BANDED COAL		343.668	1.667
* BED:RYN 20 RYN 20					
23	124	DRK GRY SH		348.335	2.667
24	021	COMMON BANDED COAL		348.418	.083
25	114	BLK SH		348.583	.167
26	021	COMMON BANDED COAL		348.752	.167
27	124	DRK GRY SH		349.502	.750
28	021	COMMON BANDED COAL		349.544	.042
29	124	DRK GRY SH		352.544	3.000
30	021	COMMON BANDED COAL		352.586	.042
31	124	DRK GRY SH		354.919	4.333
32	324	DRK GRY MASS SDY SH		365.169	8.250
33	544	GRY MASS SS		373.502	8.333
34	543	GRY SS W/SH STKS		376.002	2.500
35	544	GRY MASS SS		410.502	34.500
36	124	DRK GRY SH		435.252	24.750
37	544	GRY MASS SS		434.002	.750
38	322	DRK GRY SH+INTERBED SS		444.002	8.000
39	124	DRK GRY SH		460.002	16.000
40	021	COMMON BANDED COAL		461.481	1.479
* BED:JAW 10					
41	030	IMPURE COAL		461.583	.104
* BED:JAW 10					
42	544	GRY MASS SS		487.668	26.083
43	324	DRK GRY MASS SDY SH		493.147	5.479
44	021	COMMON BANDED COAL		493.676	.729
* BED:JAW 20					

LOG# 1 DRYHT 1 (VAL) 1 2 1: 24000.1 ID# 80

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
45	124	DRK GRY SH		496.688	.792
46	021	COMMON BANDED COAL		498.501	.833
		* BED: JAW 20			
47	324	DRK GRY MASS SDY SH		497.584	2.083
48	544	GRY MASS SS		535.501	37.917
49	114	BLK SH		536.084	.563
50	749	GRY SS W/COAL SPARS		544.167	8.083
51	700	CGL		544.000	1.833
52	740	GRY CGL		563.250	17.250
53	114	BLK SH		581.083	17.833
54	021	COMMON BANDED COAL		581.458	.375
		* BED: TIL 20 TIL 20			
55	324	DRK GRY MASS SDY SH		596.000	14.342
56	322	DRK GRY SH-INTERBED SS		634.000	38.000
57	323	DRK GRY SH W/SS STKS		695.083	61.083
58	544	GRY MASS SS		713.750	20.667
59	021	COMMON BANDED COAL		716.167	.417
		* BED: USS 20 USS 20			
60	324	DRK GRY MASS SDY SH		724.334	8.167
61	544	GRY MASS SS		771.001	46.667
62	564	HARD MASS SS		867.668	96.667
		* BED: MDR 0			
63	114	BLK SH		882.751	15.083
64	124	DRK GRY SH		892.168	9.417
65	322	DRK GRY SH-INTERBED SS		910.168	18.000
66	124	DRK GRY SH		918.418	8.250
67	544	GRY MASS SS		923.418	5.000
68	324	DRK GRY MASS SDY SH		943.001	19.963
69	123	DRK GRY SH W/COAL STKS		943.376	.375
70	021	COMMON BANDED COAL		943.584	.208
		* BED: HSB 20 HSB 20			
71	123	DRK GRY SH W/COAL STKS		946.001	2.417
72	124	DRK GRY SH		949.418	3.417
73	544	GRY MASS SS		983.501	34.083
74	749	GRY SS W/COAL SPARS		987.001	3.500
75	544	GRY MASS SS		1021.001	34.000
76	323	DRK GRY SH W/SS STKS		1057.418	16.417
77	544	GRY MASS SS		1059.418	22.000
78	124	DRK GRY SH		1060.751	1.333
79	021	COMMON BANDED COAL		1061.668	.917
		* BED: LWP 20 LWP 20			
80	124	DRK GRY SH		1062.751	1.083
81	544	GRY MASS SS		1072.834	10.083
82	124	DRK GRY SH		1098.001	25.167
83	544	GRY MASS SS		1167.334	69.333
84	124	DRK GRY SH		1191.501	24.167
85	544	GRY MASS SS		1224.751	33.250
86	124	DRK GRY SH		1227.418	2.667
87	021	COMMON BANDED COAL		1228.001	.583
		* BED: MRC 20			

LOG#1 1 (VMBNT 1 (VAL 1 2 1: 24000.1 10= 40

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
88	030	IMPURE COAL		1228.168	.167
		* BED:MRC 20			
89	124	DRK GRY SH		1229.168	1.000
90	544	GRY MASS SS		1279.751	50.583
91	114	BLK SH		1280.084	.333
92	030	IMPURE COAL		1280.126	.042
		* BED:LMP 20			
93	021	COMMON BANDED COAL		1281.418	1.292
		* BED:LMP 20			
94	113	BLK SH W/COAL STKS		1282.168	.750
95	123	DRK GRY SH W/COAL STKS		1283.585	1.417
96	543	GRY SS W/SH STKS		1295.168	11.583
97	323	DRK GRY SH W/SS STKS		1320.668	25.500
98	124	DRK GRY SH		1336.085	15.417
99	021	COMMON BANDED COAL		1337.085	1.000
		* BED:PCS 10 PCS 10			
100	324	DRK GRY MASS SDY SH		1338.085	1.000
101	544	GRY MASS SS		1369.752	31.667
102	114	BLK SH		1382.335	12.583
103	021	COMMON BANDED COAL		1382.835	.500
		* BED:PCS 20 PCS 20			
104	322	DRK GRY SH-INTERBED SS		1465.502	82.667
105	124	DRK GRY SH		1471.919	6.417
106	564	HARD MASS SS		1510.752	38.833
		* BED:LQA 0			
107	764	HARD QTZ PEB CGL		1521.002	10.250
108	564	HARD MASS SS		1600.919	79.917
109	764	HARD QTZ PEB CGL		1603.419	2.500
110	021	COMMON BANDED COAL		1603.502	.083
111	764	HARD QTZ PEB CGL		1605.002	1.500
112	544	GRY MASS SS		1625.752	20.750
113	754	XTLIZED QTZ PEB CGL		1649.002	23.250
		* BED:LQA 0			
114	021	COMMON BANDED COAL		1649.585	.583
		* BED:PCS 10 PCS 10			
115	324	DRK GRY MASS SDY SH		1671.252	21.667
116	021	COMMON BANDED COAL		1671.919	.667
		* BED:PCS 20 PCS 20			
117	544	GRY MASS SS		1697.752	25.833
118	114	BLK SH		1701.335	3.583
119	021	COMMON BANDED COAL		1702.168	.833
		* BED:PCS 10			
120	030	IMPURE COAL		1702.751	.583
		* BED:PCS 10			
121	324	DRK GRY MASS SDY SH		1733.584	50.833
122	114	BLK SH		1733.605	.021
123	021	COMMON BANDED COAL		1734.753	1.168
		* BED:PCS 10 PCS 10			
124	100	SH (UNDIF)		1754.918	.125
125	030	IMPURE COAL		1755.168	.250
		* BED:PCS 20			

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

SERIAL NUMBER: IC1092685-003-3.00

LOG# 1 DWSMT 1 (VAL) 2 1: 24000.1 ID# 60

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
126	021	COMMON BANDED COAL			
127	034	BONE		1756.335	1.167
128	021	COMMON BANDED COAL		1756.398	.063
129	113	BLK SH W/COAL STKS		1756.775	.375
130	030	IMPURE COAL		1756.836	.063
131	124	DRK GRY SH		1756.899	.063
132	114	BLK SH		1757.232	.333
133	030	IMPURE COAL		1757.295	.063
134	021	COMMON BANDED COAL		1757.358	.063
135	114	BLK SH		1757.650	.292
136	021	COMMON BANDED COAL		1757.733	.083
137	100	SH (UNDIF)		1757.837	.104
138	021	COMMON BANDED COAL		1757.858	.021
139	124	DRK GRY SH		1757.921	.063
140	114	BLK SH		1758.150	.229
141	021	COMMON BANDED COAL		1758.171	.021
142	030	IMPURE COAL		1759.006	.833
143	021	COMMON BANDED COAL		1759.129	.125
		* BED:PCS 20		1759.212	.083
144	124	DRK GRY SH			
45	021	COMMON BANDED COAL		1764.483	5.271
		* BED:PCS 30 PCS 30		1768.066	.583
146	544	GRY MASS SS		1780.066	15.000

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

SERIAL NUMBER: 1092600-003-3.00

LOG# 1 VMSNT 1 (VAL) 2 1: 24000.3 10= 59

IDENTIFICATION SECTION

1. QUAD NAME: VMSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 59
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-108
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DOWNS: L-108

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3612441.62
- 12.3 STATE PLANE E/W: 10634057.22
- 15.1 COMPANY GRID N/S: 24495.44
- 15.2 COMPANY GRID E/W: 15016.34

CIVIL DISTRICT WHERE LOCATED

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

HOLE OR SECTION DESCRIPTION

11. ELEVATION AT TOP OF HOLE OR SECTION: F 1722.70 DRILL ANGLE D.
22. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1791.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: KEM
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/23/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 14.23' NET DGL +/- 1.5'

LOG# 1 J DVGNT 1 DIA 1 2 T: 24000,1 10= 59

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		38.000	38.000
2	322	DRK GRY SH+INTERBED SS		62.417	24.417
3	324	DRK GRY MASS SDY SH		149.417	87.000
4	021	COMMON BANDED COAL		149.917	.500
		* BED:KEN 10 KEN 10			
5	124	DRK GRY SH		156.584	6.667
6	544	GRY MASS SS		162.584	6.000
7	124	DRK GRY SH		169.834	7.250
8	544	GRY MASS SS		233.834	64.000
9	324	DRK GRY MASS SDY SH		271.417	37.583
10	030	IMPURE COAL		271.875	.458
		* BED:ALT 10 ALT 10			
11	124	DRK GRY SH		272.583	.708
12	544	GRY MASS SS		306.750	34.167
13	124	DRK GRY SH		308.900	1.750
14	021	COMMON BANDED COAL		309.333	.333
		* BED:ALT 20			
15	114	BLK SH		309.583	.250
16	030	IMPURE COAL		309.833	.250
		* BED:ALT 20			
17	124	DRK GRY SH		355.666	45.833
18	544	GRY MASS SS		375.416	19.750
19	124	DRK GRY SH		375.458	.042
20	021	COMMON BANDED COAL		376.750	1.292
		* BED:RYN 20 RYN 20			
21	544	GRY MASS SS		411.750	35.000
22	030	IMPURE COAL		411.833	.083
23	544	GRY MASS SS		429.083	17.250
24	020	COAL		429.583	.500
		* BED:RYN 30			
25	114	BLK SH		431.500	1.917
26	021	COMMON BANDED COAL		432.000	.500
		* BED:RYN 30			
27	323	DRK GRY SH W/SS STKS		448.000	16.000
28	124	DRK GRY SH		498.583	50.583
29	021	COMMON BANDED COAL		500.125	1.542
		* BED:JAM 10 JAM 10			
30	324	DRK GRY MASS SDY SH		509.833	9.708
31	544	GRY MASS SS		519.000	13.167
32	324	DRK GRY MASS SDY SH		528.667	9.667
33	021	COMMON BANDED COAL		529.584	.917
		* BED:JAM 20 JAM 20			
34	124	DRK GRY SH		532.001	2.417
35	544	GRY MASS SS		577.834	45.833
36	124	DRK GRY SH		580.584	2.750
37	700	COL		584.584	4.000
38	021	COMMON BANDED COAL		584.667	.083
39	114	BLK SH		588.584	3.917
40	322	DRK GRY SH+INTERBED SS		596.834	8.250
41	543	GRY SS W/SH STKS		603.584	6.750

LOG# 1 1 IVKSWT 1 DIA3 (2 1: 24000.1 ID# 59

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
42	323	DRK GRY SH W/SS STKS		609.001	5.417
43	114	BLK SH		609.584	.583
44	021	COMMON BANDED COAL		610.251	.667
		* BED:TIL 10 TIL 10			
45	124	DRK GRY SH		617.668	7.417
46	114	BLK SH		618.501	.833
47	021	COMMON BANDED COAL		618.918	.417
		* BED:TIL 20 TIL 20			
48	124	DRK GRY SH		621.585	2.667
49	544	GRY MASS SS		632.002	10.417
50	322	DRK GRY SH+INTERBED SS		711.333	79.333
51	021	COMMON BANDED COAL		711.668	.333
		* BED:USE 10 USE 10			
52	124	DRK GRY SH		723.335	11.667
53	544	GRY MASS SS		871.585	88.250
54	544	HARD MASS SS		879.835	68.250
		* BED:MSA 0			
55	021	COMMON BANDED COAL		879.916	.083
56	544	HARD MASS SS		888.168	8.250
		* BED:MSA 0			
57	021	COMMON BANDED COAL		888.585	.417
		* BED:GYC 10 GYC 10			
58	544	GRY MASS SS		895.668	7.083
59	021	COMMON BANDED COAL		895.710	.042
60	544	GRY MASS SS		903.502	7.792
61	114	BLK SH		913.919	12.417
62	323	DRK GRY SH W/SS STKS		951.419	35.500
63	034	BONE		952.044	.625
		* BED:MSB 10			
64	021	COMMON BANDED COAL		952.127	.083
		* BED:MSB 10			
65	543	GRY SS W/SH STKS		970.752	18.625
66	113	BLK SH W/COAL STKS		971.419	.667
67	324	DRK GRY MASS SDY SH		980.461	9.042
68	021	COMMON BANDED COAL		980.836	.375
		* BED:MSB 20 MSB 20			
69	113	BLK SH W/COAL STKS		982.836	2.000
70	544	GRY MASS SS		1051.336	68.500
71	323	DRK GRY SH W/SS STKS		1071.669	20.333
72	021	COMMON BANDED COAL		1072.336	.667
		* BED:UNP 10			
73	114	BLK SH		1073.086	.750
74	021	COMMON BANDED COAL		1073.253	.167
		* BED:UNP 10			
75	124	DRK GRY SH		1074.333	1.000
76	544	GRY MASS SS		1099.086	24.833
77	124	DRK GRY SH		1099.919	.833
78	021	COMMON BANDED COAL		1100.586	.667
		* BED:UNP 20 UNP 20			
79	324	DRK GRY MASS SDY SH		1125.419	24.833

LOG=C 1 EVMSWT 1 DIA 12 1: 24000.1 ID= 59

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
80	113	BLK SH W/COAL STKS		1126.002	.583
81	021	COMMON BANDED COAL		1127.002	1.000
		* BED:MP 10 MP 10			
82	124	DRK GRY SH		1139.419	12.417
83	544	GRY MASS SS		1199.669	60.250
84	114	BLK SH		1221.919	22.250
85	544	GRY MASS SS		1259.669	37.750
86	124	DRK GRY SH		1267.252	7.583
87	544	GRY MASS SS		1293.752	26.500
88	124	DRK GRY SH		1298.835	5.083
89	543	GRY SS W/SH STKS		1301.585	2.750
90	124	DRK GRY SH		1308.085	6.500
91	021	COMMON BANDED COAL		1309.335	1.250
		* BED:LMP 20 LMP 20			
92	124	DRK GRY SH		1312.168	2.833
93	543	GRY SS W/SH STKS		1344.585	32.417
94	543	HARD SS W/SH STKS		1360.668	16.083
95	124	DRK GRY SH		1372.085	11.417
96	114	BLK SH		1373.002	.917
97	021	COMMON BANDED COAL		1375.335	2.333
		* BED:PC9 10			
98	030	IMPURE COAL		1375.418	.083
		* BED:PC9 10			
99	124	DRK GRY SH		1382.585	7.167
100	543	GRY SS W/SH STKS		1399.502	16.917
101	114	BLK SH		1412.169	12.667
102	021	COMMON BANDED COAL		1412.752	.583
		* BED:PC9 20			
103	030	IMPURE COAL		1413.085	.333
		* BED:PC9 20			
104	126	DRK GRY SH		1418.835	5.750
105	544	GRY MASS SS		1424.585	5.750
106	124	DRK GRY SH		1440.752	16.167
107	114	BLK SH		1451.085	10.333
108	124	DRK GRY SH		1455.418	4.333
109	543	GRY SS W/SH STKS		1451.369	6.167
110	323	DRK GRY SH W/SS STKS		1467.568	6.083
111	114	BLK SH		1468.501	.833
112	322	DRK GRY SH+INTERBED SS		1489.751	21.250
113	113	BLK SH W/COAL STKS		1493.084	3.333
114	544	GRY MASS SS		1502.084	9.000
115	322	DRK GRY SH+INTERBED SS		1520.417	18.333
116	544	HARD MASS SS		1596.584	76.167
		* BED:LGA 0			
117	764	HARD RTZ PES TGL		1606.042	89.458
		* BED:LGA 0			
118	021	COMMON BANDED COAL		1687.167	1.125
		* BED:PCS 20 PCS 20			
119	124	DRK GRY SH		1692.000	4.833
120	544	GRY MASS SS		1733.250	41.250

LOG# 1 (VNSHT) 2 (VA) [2 1: 24000.1 ID# 59

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
121	124	DRK GRY SH		1733.917	.667
122	544	GRY MASS SS		1737.000	3.083
123	742	GRY SH PEB CGL		1737.563	.583
124	124	DRK GRY SH		1748.563	11.000
125	123	DRK GRY SH W/COAL STRS		1750.021	1.438
126	030	IMPURE COAL		1750.125	.104
		* BED:PC4 10			
127	021	COMMON BANDED COAL		1756.354	6.229
128	030	IMPURE COAL		1756.458	.104
		* BED:PC4 10			
129	114	BLK SH		1757.104	.646
130	030	IMPURE COAL		1757.500	.396
		* BED:PC4 20 PC4 20			
131	544	GRY MASS SS		1764.583	7.083
132	329	DRK GRY SDY SH W/POB SHLS		1768.021	3.438
133	030	IMPURE COAL		1768.042	.021
		* BED:PC3 10			
134	021	COMMON BANDED COAL		1769.417	1.375
135	021	COMMON BANDED COAL		1769.438	.021
		* BED:PC3 10			
136	100	SH (UNDIF)		1769.521	.083
137	021	COMMON BANDED COAL		1771.000	1.479
		* BED:PC3 20			
138	034	BONE		1771.083	.083
139	030	IMPURE COAL		1771.208	.125
140	021	COMMON BANDED COAL		1771.373	.167
141	030	IMPURE COAL		1771.521	.146
142	021	COMMON BANDED COAL		1772.167	.646
143	100	SH (UNDIF)		1772.250	.083
144	021	COMMON BANDED COAL		1773.229	.979
145	114	BLK SH		1773.271	.042
146	029	COAL W/PYRITE STRS		1773.584	.313
		* BED:PC3 20			
147	114	BLK SH		1774.001	.417
148	030	IMPURE COAL		1774.043	.042
		* BED:PC3 30			
149	021	COMMON BANDED COAL		1774.731	.688
		* BED:PC3 30			
150	114	BLK SH		1775.731	1.000
151	030	IMPURE COAL		1775.898	.167
152	324	DRK GRY MASS SDY SH		1782.948	7.043
153	030	IMPURE COAL		1783.065	.125
154	324	DRK GRY MASS SDY SH		1790.982	7.917

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

SERIAL NUMBER: 002686-003-3.00

LOG#() EVENT 3 (VA) 1 2 1: 24000.2 10= 3

IDENTIFICATION SECTION

1. QUAD NAME: VVWNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 3
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK COAL COMPANY
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-111
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
9. CONTRIBUTING COMPANY DOW#: L-111

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 360779.28
- 12.3 STATE PLANE E/W: 10439116.24
- 15.1 COMPANY GRID N/S: 10975.41
- 15.2 COMPANY GRID E/W: 20231.90

CIVIL DISTRICT WHERE LOCATED

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

HOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1593.60 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1462.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JMW
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: T(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(TMC)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: KMF
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 10
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 17.31° NET COAL >= 1.5'

LOG=[1] (VMSHT) [1] (VAT) [2] 24000.1 10= 1

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		20.000	20.000
2	544	GRY MASS SS		88.833	68.833
3	323	DRK GRY SH W/SS STKS		134.300	45.467
4	544	GRY MASS SS		185.000	50.500
5	323	DRK GRY SH W/SS STKS		187.833	2.833
6	021	COMMON BANDED COAL		188.666	.833
* BED:JAW 20 JAW 20					
7	124	DRK GRY SH		191.749	3.083
8	544	GRY MASS SS		232.416	40.667
9	021	COMMON BANDED COAL		232.499	.083
10	740	ERY CGL		240.999	8.500
11	544	GRY MASS SS		251.749	10.750
12	323	DRK GRY SH W/SS STKS		269.099	18.250
13	322	DRK GRY SH-INTERBED SS		277.416	7.417
14	114	BLK SH		277.833	.417
15	124	DRK GRY SH		283.083	5.250
16	021	COMMON BANDED COAL		284.250	1.167
* BED:TIL 20 TIL 20					
17	324	DRK GRY MASS SDY SH		285.500	1.250
18	543	GRY SS W/SH STKS		301.500	16.000
19	324	DRK GRY MASS SDY SH		379.333	77.833
20	021	COMMON BANDED COAL		379.750	.417
* BED:USB 10 USB 10					
21	114	BLK SH		379.917	.167
22	544	GRY MASS SS		405.625	25.708
23	021	COMMON BANDED COAL		406.167	.542
* BED:USB 20 USB 20					
24	324	DRK GRY MASS SDY SH		453.417	47.250
25	124	DRK GRY SH		511.667	58.250
26	021	COMMON BANDED COAL		511.488	.021
* BED:GYC 10 GYC 10					
27	544	GRY MASS SS		549.584	37.896
28	124	DRK GRY SH		570.001	20.417
29	324	DRK GRY MASS SDY SH		571.668	1.667
30	543	GRY SS W/SH STKS		615.918	44.250
31	124	DRK GRY SH		616.833	.917
32	021	COMMON BANDED COAL		616.877	.042
* BED:MSB 20					
33	124	DRK GRY SH		617.169	.292
34	028	COAL W/SH STKS		617.919	.750
* BED:MSB 20					
35	544	GRY MASS SS		637.586	19.667
36	123	DRK GRY SH W/COAL STKS		637.919	.333
37	124	DRK GRY SH		641.169	3.250
38	543	GRY SS W/SH STKS		688.002	46.833
39	748	GRY SS W/COAL BANDS		697.919	9.917
40	322	DRK GRY SH-INTERBED SS		730.002	32.083
41	124	DRK GRY SH		733.127	3.125
42	021	COMMON BANDED COAL		733.585	.458
* BED:UHP 10					

LOG#(1 (VHSHT 1 (MA) (2 1: 24000.7 ID= 3

LINE	CODE	ENGLISH	COMMENT	CUMULATIVE	UNIT
43	114	BLK SH		733.609	.194
44	030	IMPURE COAL		734.232	.563
		* BED:LMP 10			
45	123	DRK GRY SH W/COAL STRS		735.419	1.167
46	544	GRY MASS SS		752.586	17.167
47	324	DRK GRY MASS SOY SH		753.378	5.792
48	021	COMMON BANDED COAL		758.920	.542
		* BED:LMP 20 LMP 20			
49	324	DRK GRY MASS SOY SH		769.303	10.583
50	544	GRY MASS SS		790.923	21.417
51	124	DRK GRY SH		792.670	1.750
52	021	COMMON BANDED COAL		792.920	.250
		* BED:LMP 10 LMP 10			
53	124	DRK GRY SH		793.337	.417
54	544	GRY MASS SS		813.337	22.000
55	124	DRK GRY SH		836.504	41.167
56	124	DRK GRY SH		874.671	18.167
57	021	COMMON BANDED COAL		875.171	.500
		* BED:LMP 10 LMP 10			
58	124	DRK GRY SH		875.421	.250
59	544	GRY MASS SS		891.754	16.333
60	021	COMMON BANDED COAL		892.254	.500
		* BED:LMP 20 LMP 20			
61	324	DRK GRY MASS SOY SH		895.587	3.333
62	544	GRY MASS SS		899.754	4.167
63	324	DRK GRY MASS SOY SH		908.504	8.750
64	124	DRK GRY SH		909.171	.667
65	021	COMMON BANDED COAL		909.213	.042
66	124	DRK GRY SH		909.338	.125
67	544	GRY MASS SS		948.338	39.000
68	124	DRK GRY SH		948.753	.417
69	759	XTLIZED SS W/COAL SPARS		949.085	.250
70	021	COMMON BANDED COAL		949.838	.833
		* BED:LMP 10 LMP 10			
71	114	BLK SH		950.005	.167
72	324	DRK GRY MASS SOY SH		955.753	5.750
73	544	GRY MASS SS		970.734	14.979
74	021	COMMON BANDED COAL		970.776	.042
		* BED:LMP 20			
75	127	DRK GRY FIRECLAY		970.859	.083
76	021	COMMON BANDED COAL		972.297	1.438
77	117	BLK FIRECLAY		972.360	.063
78	021	COMMON BANDED COAL		972.485	.125
79	127	DRK GRY FIRECLAY		972.569	.104
80	021	COMMON BANDED COAL		972.672	.083
		* BED:LMP 20			
81	323	DRK GRY SH W/SS STRS		986.505	13.833
82	554	XTLIZED MASS SS		1024.088	37.583
	544	GRY MASS SS		1028.421	4.333
83	322	DRK GRY SH+INTERBED SS		1033.338	4.917

LOG# 1 EVENT 1 IVA1 [2 1: 26000.] ID= 3

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
85	124	DRK GRY SH			
86	021	COMMON BANDED COAL		1051.171	17.633
		* BED:PC9 10 PC9 10		1051.754	.583
87	124	DRK GRY SH			
88	124	DRK GRY SH		1082.504	30.750
89	027	COAL W/SH LAYERS		1083.212	.708
		* BED:PC9 20 PC9 20		1083.587	.375
90	124	DRK GRY SH			
91	544	GRY MASS SS		1088.587	5.000
92	124	DRK GRY SH		1099.254	10.667
93	027	COAL W/SH LAYERS		1113.337	14.083
		* BED:PC9 10 PC9 10		1115.170	1.833
94	124	DRK GRY SH			
95	113	BLK SH W/COAL STKS		1116.670	1.500
96	323	DRK GRY SH W/SS STKS		1118.253	1.583
97	554	XTLIZED MASS SS		1133.420	15.167
		* BED:LQA 0		1147.887	13.667
98	124	DRK GRY SH			
99	113	BLK SH W/COAL STKS		1147.420	.333
100	124	DRK GRY SH		1147.837	.417
101	554	XTLIZED MASS SS		1149.254	1.417
102	554	XTLIZED MASS SS		1159.587	10.333
103	554	XTLIZED MASS SS		1169.420	9.833
104	554	XTLIZED MASS SS		1218.420	49.000
105	554	XTLIZED MASS SS		1221.420	3.000
106	021	COMMON BANDED COAL		1267.170	45.750
107	754	XTLIZED QTZ PER CGL		1267.180	.010
108	554	XTLIZED MASS SS		1273.086	5.906
109	754	XTLIZED QTZ PER CGL		1303.503	30.417
110	554	XTLIZED MASS SS		1310.503	7.000
111	754	XTLIZED QTZ PER CGL		1317.003	6.500
		* BED:LQA 0		1330.086	13.083
112	124	DRK GRY SH			
113	543	GRY SS W/SH STKS		1340.003	9.917
114	124	DRK GRY SH		1343.503	3.500
115	543	GRY SS W/SH STKS		1346.003	2.500
116	124	DRK GRY SH		1355.003	9.000
117	027	COAL W/SH LAYERS		1358.086	3.083
		* BED:PC4 10		1358.419	.333
118	124	DRK GRY SH			
119	123	DRK GRY SH W/COAL STKS		1358.961	.542
120	028	COAL W/SH STKS		1359.236	.275
121	021	COMMON BANDED COAL		1360.586	.750
122	034	BOXE		1361.867	1.281
123	021	COMMON BANDED COAL		1361.982	.115
		* BED:PC4 10		1362.795	.813
124	124	DRK GRY SH			
125	540	GRY SS		1362.920	.125
126	124	DRK GRY SH		1371.420	8.500
127	021	COMMON BANDED COAL		1384.420	13.000
		* BED:PC4 20		1384.534	.114

LOG-1 1 DRYMT 1 (MA) 1 2 1: 24000.1 10* 3

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
128	103	SH W/COAL STRS		1384.628	.104
129	021	COMMON BANDED COAL		1390.024	5.396
		* BED:PC4 20			
130	103	SH W/COAL STRS		1390.045	.021
131	324	DRK GRY MASS SDY SH		1392.337	2.292
132	543	GRY SS W/SH STRS		1400.004	7.667
133	324	DRK GRY MASS SDY SH		1434.421	34.417
134	021	COMMON BANDED COAL		1435.681	1.260
		* BED:PC3 10			
135	103	SH W/COAL STRS		1435.723	.042
136	021	COMMON BANDED COAL		1435.775	.052
		* BED:PC3 10			
137	124	DRK GRY SH		1435.817	.042
138	021	COMMON BANDED COAL		1437.025	1.208
		* BED:PC3 20			
139	034	BONE		1437.150	.125
140	021	COMMON BANDED COAL		1438.348	1.198
141	124	DRK GRY SH		1438.619	.271
142	021	COMMON BANDED COAL		1439.807	1.188
		* BED:PC3 20			
143	103	SH W/COAL STRS		1440.213	.406
144	021	COMMON BANDED COAL		1440.421	.208
		* BED:PC3 30 PCS 30			
145	124	DRK GRY SH		1458.254	17.833
146	540	GRY SS		1462.094	3.750

LOG#C 3 IVHSNT 1 DIA C 2 1: 24000.1 TO= 4

IDENTIFICATION SECTION

1. QUAD NAME: VHSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 4
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK COAL COMPANY
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-114
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
9. CONTRIBUTING COMPANY DDW#: L-114

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3604361.12
- 12.3 STATE PLANE E/W: 10437041.30
- 15.1 COMPANY GRID N/S: 16500.00
- 15.2 COMPANY GRID E/W: 18225.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: RICHMOND
19. TOWNSHIP, REGISTERIAL DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION:

MEHOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1984.90 DRILL ANGLE 0.
2. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1958
25. TOTAL DEPTH OF DRILL HOLE: F 1963.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: K2N
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC1
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: KMF
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 10
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 8.29' NET COAL @ 1.5'

LOG=C 3 (VMSHT 3 (VAL 2 1+ 24000.) ID= 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING ON SURFACE		43.000	43.000
2	544	GRY MASS SS		50.000	7.000
3	124	DRK GRY SH		57.417	7.417
4	544	GRY MASS SS		66.000	8.583
5	324	DRK GRY MASS SDY SH		154.667	88.667
6	323	DRK GRY SH W/SS STKS		166.000	11.333
7	322	DRK GRY SH+INTERBED SS		170.833	4.833
8	544	GRY MASS SS		171.500	1.167
9	021	COMMON BANDED COAL		172.667	1.167
* BED:KEN 10 KEN 10					
10	324	DRK GRY MASS SDY SH		177.334	4.667
11	544	GRY MASS SS		227.834	50.500
12	544	GRY MASS SS		234.301	6.467
13	544	GRY MASS SS		244.751	10.250
14	544	GRY MASS SS	COAL STRES	258.334	13.583
15	124	DRK GRY SH		293.167	34.833
16	021	COMMON BANDED COAL		293.250	.083
* BED:ALY 10					
17	124	DRK GRY SH		293.300	.250
18	021	COMMON BANDED COAL		293.542	.042
* BED:ALY 10					
19	124	DRK GRY SH		298.917	5.375
20	543	GRY SS W/SH STKS		310.750	11.833
21	324	DRK GRY MASS SDY SH		321.479	10.729
22	021	COMMON BANDED COAL		322.917	1.438
* BED:ALY 20					
23	027	COAL W/SH LAYERS		323.417	.500
* BED:ALY 20					
24	324	DRK GRY MASS SDY SH		360.917	37.500
25	021	COMMON BANDED COAL		361.000	.083
26	324	DRK GRY MASS SDY SH		367.417	6.417
27	544	GRY MASS SS		383.500	16.083
28	124	DRK GRY SH		388.479	4.979
29	021	COMMON BANDED COAL		390.000	1.521
* BED:RYN 20 RYN 20					
30	124	DRK GRY SH		390.417	.417
31	544	GRY MASS SS		445.000	54.583
32	749	GRY SS W/COAL SPARS		445.083	.083
33	544	GRY MASS SS		492.416	47.333
34	124	DRK GRY SH		508.999	16.583
35	324	DRK GRY MASS SDY SH		521.499	12.500
36	021	COMMON BANDED COAL		521.916	.417
* BED:JAM 10					
37	124	DRK GRY SH		521.999	.083
38	021	COMMON BANDED COAL		522.374	.375
* BED:JAM 10					
39	124	DRK GRY SH		522.832	.458
40	544	GRY MASS SS		556.499	33.667
	544	GRY MASS SS		566.166	9.667
4	124	DRK GRY SH		567.458	1.292

LOG#1 1 IVNBY 1 DVAL 2-1: 24000.3 10# 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	021	COMMON BANDED COAL		568.145	.688
		* BED:JAW 20			
44	124	DRK GRY SH		568.229	.083
45	021	COMMON BANDED COAL		569.167	.938
		* BED:JAW 20			
46	324	DRK GRY MASS SDY SH		577.250	8.083
47	544	GRY MASS SS		595.500	18.250
48	021	COMMON BANDED COAL		595.542	.042
49	544	GRY MASS SS		615.500	19.958
50	740	GRY CGL		616.500	1.000
51	544	GRY MASS SS		654.383	38.083
52	124	DRK GRY SH		665.333	10.750
53	324	DRK GRY MASS SDY SH		672.916	7.583
54	021	COMMON BANDED COAL		673.583	.667
		* BED:TIL 30 TIL 30			
55	324	DRK GRY MASS SDY SH		679.000	4.417
56	544	GRY MASS SS		692.500	4.500
57	124	DRK GRY SH		689.833	7.333
58	544	GRY MASS SS		696.300	6.667
59	124	DRK GRY SH		761.833	65.533
60	021	COMMON BANDED COAL		761.916	.083
		* BED:US8 10 US8 10			
61	324	DRK GRY MASS SDY SH		769.499	7.583
62	544	GRY MASS SS		786.499	17.000
63	544	GRY MASS SS		799.999	13.500
64	113	BLK SH W/COAL STKS		800.416	.417
65	124	DRK GRY SH		804.866	4.250
66	544	GRY MASS SS		837.499	32.633
67	544	GRY MASS SS		878.666	21.167
68	124	DRK GRY SH		896.499	17.833
69	544	GRY MASS SS		914.582	20.083
70	544	GRY MASS SS		946.082	31.500
71	124	DRK GRY SH		964.582	18.500
72	543	GRY SS W/SH STKS		968.999	4.417
73	124	DRK GRY SH		999.249	30.250
74	113	BLK SH W/COAL STKS		999.666	.417
75	324	DRK GRY MASS SDY SH		1019.833	20.167
76	123	DRK GRY SH W/COAL STKS		1020.000	.167
77	324	DRK GRY MASS SDY SH		1026.500	6.500
78	543	GRY SS W/SH STKS		1071.500	45.000
79	544	GRY MASS SS		1082.000	10.500
80	322	DRK GRY SH+INTERVED SS		1135.833	53.833
81	544	GRY MASS SS		1153.666	17.833
82	021	COMMON BANDED COAL		1154.583	.917
		* BED:UMP 10 UMP 10			
83	324	DRK GRY MASS SDY SH		1158.583	4.000
84	544	GRY MASS SS		1195.416	36.833
85	021	COMMON BANDED COAL		1196.083	.667
		* BED:UMP 20			
86	124	DRK GRY SH		1196.125	.042

LOG#1 3 DWHNT 2 DIA 1.2 1: 24000.3 10# 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
87	021	COMMON BANDED COAL		1196.583	.438
		* BED:LHP 20			
88	124	DRK GRY SH		1203.250	6.667
89	544	GRY MASS SS		1223.000	19.750
90	124	DRK GRY SH		1268.500	45.500
91	544	GRY MASS SS		1294.333	25.833
92	021	COMMON BANDED COAL		1294.500	.167
		* BED:WRC 10 WRC 10			
93	124	DRK GRY SH		1294.667	.167
94	544	GRY MASS SS		1307.667	13.000
95	124	DRK GRY SH		1316.500	8.833
96	544	GRY MASS SS		1347.333	30.833
97	021	COMMON BANDED COAL		1347.583	.250
		* BED:LHP 10 LHP 10			
98	324	DRK GRY MASS SDY SH		1372.062	24.479
99	021	COMMON BANDED COAL		1372.083	.021
		* BED:LHP 20			
100	124	DRK GRY SH		1372.250	.167
101	021	COMMON BANDED COAL		1373.688	1.438
		* BED:LHP 20			
102	124	DRK GRY SH		1374.667	.979
103	322	DRK GRY SH+INTERBED SS		1394.167	19.500
104	543	GRY SS W/SH STKS		1414.000	19.833
105	124	DRK GRY SH		1438.750	24.750
106	021	COMMON BANDED COAL		1439.833	1.083
		* BED:PC9 10 PC9 10			
107	124	DRK GRY SH		1443.500	3.667
108	543	GRY SS W/SH STKS		1465.383	20.083
109	323	DRK GRY SH W/SS STKS		1479.750	14.367
110	124	DRK GRY SH		1482.167	2.417
111	322	DRK GRY SH+INTERBED SS		1501.000	18.833
112	124	DRK GRY SH		1516.500	15.500
113	124	DRK GRY SH		1523.500	7.000
114	322	DRK GRY SH+INTERBED SS		1545.300	22.000
115	114	BLK SH		1545.833	.533
116	324	DRK GRY MASS SDY SH		1549.833	4.000
117	553	XTLIZED SS W/SH STKS		1563.500	13.667
		* BED:LOA 0			
118	554	XTLIZED MASS SS		1647.583	84.083
119	734	XTLIZED QTZ PER CGL		1662.583	15.000
120	734	XTLIZED QTZ PER CGL		1664.666	2.083
121	021	COMMON BANDED COAL		1664.791	.125
122	554	XTLIZED MASS SS		1669.916	5.125
123	021	COMMON BANDED COAL		1670.083	.167
124	554	XTLIZED MASS SS		1692.416	22.333
125	554	XTLIZED MASS SS	QTZ PEBB	1719.499	27.083
126	754	XTLIZED QTZ PER CGL		1721.832	2.333
		* BED:LOA 0			
7	021	COMMON BANDED COAL		1722.499	.667
		* BED:PCS 10 PCS 10			

LOG# 1 IVNSHT 1 (VAL 2 2 1: 24000.3) 10M 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
128	124	DRK GRY SH		1725.582	3.083
129	027	COAL W/SH LAYERS		1726.082	.300
		* BED:PC3 20			
130	124	DRK GRY SH		1726.499	.417
131	021	COMMON BANDED COAL		1727.499	1.000
		* BED:PC3 20			
132	124	DRK GRY SH		1731.749	4.250
133	540	GRY SS		1790.416	58.667
134	124	DRK GRY SH		1790.999	.583
135	027	COAL W/SH LAYERS		1791.166	.167
		* BED:PC4 20			
136	021	COMMON BANDED COAL		1791.499	.333
137	124	DRK GRY SH		1792.249	.750
138	027	COAL W/SH LAYERS		1793.332	1.083
		* BED:PC4 20			
139	540	GRY SS		1796.665	3.333
140	323	DRK GRY SH W/SS STKS		1837.457	40.792
141	021	COMMON BANDED COAL		1837.478	.021
142	323	DRK GRY SH W/SS STKS		1840.770	3.292
143	021	COMMON BANDED COAL		1842.062	1.292
		* BED:PC3 10 PC3 10			
144	124	DRK GRY SH		1842.166	.704
145	021	COMMON BANDED COAL		1842.187	.021
		* BED:PC3 20			
146	124	DRK GRY SH		1842.229	.042
147	021	COMMON BANDED COAL		1843.308	.979
148	123	DRK GRY SH W/COAL STKS		1843.396	.188
149	021	COMMON BANDED COAL		1844.104	.708
150	124	DRK GRY SH		1844.125	.021
151	021	COMMON BANDED COAL		1844.167	.042
		* BED:PC3 20			
152	127	DRK GRY FIRECLAY		1845.584	1.417
153	543	GRY SS W/SH STKS		1856.917	11.333
154	124	DRK GRY SH		1857.167	.250
155	021	COMMON BANDED COAL		1857.334	.167
156	123	DRK GRY SH W/COAL STKS		1857.417	.083
157	021	COMMON BANDED COAL		1858.086	.667
158	322	DRK GRY SH+INTERBED SS		1868.594	10.500
159	021	COMMON BANDED COAL		1869.251	.667
160	324	DRK GRY MASS BDY SH		1886.918	17.667
161	124	DRK GRY SH		1905.710	18.792
162	021	COMMON BANDED COAL		1906.127	.417
		* BED:PC2 10			
163	124	DRK GRY SH		1906.460	.333
164	021	COMMON BANDED COAL		1906.918	.458
		* BED:PC2 10			
165	324	DRK GRY MASS BDY SH		1931.668	24.750
166	021	COMMON BANDED COAL		1933.085	1.417
		* BED:PC1 10 PC1 10			
167	124	DRK GRY SH		1933.502	.417

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

SERIAL NUM: IC1092686-003-3.00

LOG#E J [VNSNT J [VAT [2 1: 24000.] ID= 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
168	543	GRY SS W/SH STKS		1936.919	3.417
169	563	HARD SS W/SH STKS		1962.919	26.000

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

SERIAL NUM:IC1092686-003-3.00

LOG#1 1 (VARIANT) 2 (VA) 1 2 1: 24000.1 TD# 5

IDENTIFICATION SECTION

1. QUAD NAME: VIRENT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 5
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK COAL COMPANY
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-117
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
9. CONTRIBUTING COMPANY DOWH: L-117

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3608689.74
- 12.3 STATE PLANE E/W: 10433713.85
- 15.1 COMPANY GRID N/S: 20790.51
- 15.2 COMPANY GRID E/W: 16777.18

CIVIL DISTRICT WHERE LOCATED

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

WELL OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1776.90 DRILL ANGLE D.
2. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: JOY
24. YEAR DRILLED OR MEASURED: 1959
25. TOTAL DEPTH OF DRILL HOLE: F 1805.100
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: ALT
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC3
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: KHF
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 10
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 10.03' NET COAL >= 1.5'

LOG# 1 7 (WENT 3 (VAL 1 2 1 24000.) (0- 5

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASTING ON SURFACE		33.000	33.000
2	322	DRK GRY SH+INTERBED SS		46.000	13.000
3	124	DRK GRY SH		98.833	52.833
4	544	GRY MASS SS		109.250	10.417
5	124	DRK GRY SH		124.000	14.750
6	544	GRY MASS SS		191.167	67.167
7	124	DRK GRY SH		222.834	31.667
8	021	COMMON BANDED COAL		223.251	.417
* BED:ALY 10 ALY 10					
9	124	DRK GRY SH		227.334	4.083
10	322	DRK GRY SH+INTERBED SS		234.417	7.083
11	544	GRY MASS SS		257.917	23.500
12	124	DRK GRY SH		258.167	.250
13	021	COMMON BANDED COAL		259.300	1.333
* BED:ALY 20 ALY 20					
14	124	DRK GRY SH		261.083	1.583
15	544	GRY MASS SS		270.666	9.583
16	124	DRK GRY SH		296.499	25.833
17	021	COMMON BANDED COAL		296.566	.167
* BED:RYM 10 RYM 10					
18	124	DRK GRY SH		298.499	1.833
19	544	GRY MASS SS		322.999	24.500
20	114	BLK SH		323.141	.542
21	021	COMMON BANDED COAL		324.249	.708
* BED:RYM 20					
22	124	DRK GRY SH		324.374	.125
23	021	COMMON BANDED COAL		324.574	.500
* BED:RYM 20					
24	544	GRY MASS SS		398.874	74.000
25	021	COMMON BANDED COAL		398.916	.042
26	749	GRY SS W/COAL SPARS		403.416	4.500
27	544	GRY MASS SS		418.249	14.833
28	124	DRK GRY SH		461.749	43.500
29	021	COMMON BANDED COAL		462.999	1.250
* BED:JAM 10 JAM 10					
30	124	DRK GRY SH		471.582	8.583
31	544	GRY MASS SS		480.332	16.750
32	324	DRK GRY MASS BOT SH		500.124	11.792
33	021	COMMON BANDED COAL		501.749	1.625
* BED:JAM 20 JAM 20					
34	124	DRK GRY SH		503.999	2.250
35	544	GRY MASS SS		544.999	41.000
36	740	DRY CGL		557.916	12.917
37	124	DRK GRY SH		565.999	8.083
38	323	DRK GRY SH W/SS STEG		581.666	15.667
39	027	COAL W/SH LAYERS		581.916	.250
40	124	DRK GRY SH		590.166	8.250
41	021	COMMON BANDED COAL		591.166	1.000
* BED:TIL 20 TIL 20					
42	124	DRK GRY SH		593.666	2.500

LOG# 1 IVNSW 1 DIA (2 1: 24000.1 10= 3

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	544	GRY MASS SS		609.999	16.333
44	543	GRY SS W/SH STKS		620.666	10.667
45	324	DRK GRY MASS SDY SH		660.666	30.000
46	124	DRK GRY SH		664.291	33.625
47	021	COMMON BANDED COAL		684.624	.333
		* BED:USB 10 USB 10			
48	124	DRK GRY SH		690.916	6.292
49	544	GRY MASS SS		721.583	30.667
50	124	DRK GRY SH		721.916	.333
51	021	COMMON BANDED COAL		722.666	.750
		* BED:USB 20			
52	027	COAL W/SH LAYERS		722.999	.333
		* BED:USB 20			
53	114	BLK SH		723.166	.167
54	322	DRK GRY SH+INTERBED SS		734.999	13.833
55	544	GRY MASS SS		796.166	59.167
56	554	XTLIZED MASS SS		829.666	33.500
		* BED:MBA 0			
57	554	XTLIZED MASS SS	GT3 PEB	838.583	8.917
		* BED:MBA 0			
58	021	COMMON BANDED COAL		838.998	.375
		* BED:BYC 10 BYC 10			
59	124	DRK GRY SH		839.583	.625
60	027	COAL W/SH LAYERS		839.916	.333
61	544	GRY MASS SS		870.999	31.083
62	124	DRK GRY SH		884.582	13.583
63	323	DRK GRY SH W/SS STKS		893.749	9.167
64	322	DRK GRY SH+INTERBED SH		909.999	16.250
65	124	DRK GRY SH		929.999	20.000
66	323	DRK GRY SH W/SS STKS		950.249	20.250
67	544	GRY MASS SS		957.082	6.833
68	021	COMMON BANDED COAL		957.332	.250
		* BED:LSB 10 LSB 10			
69	124	DRK GRY SH		958.999	1.667
70	123	DRK GRY SH W/COAL STKS		959.374	.375
71	021	COMMON BANDED COAL		959.666	.292
		* BED:LSB 20 LSB 20			
72	322	DRK GRY SH+INTERBED SS		961.999	2.333
73	544	GRY MASS SS		990.999	29.000
74	322	DRK GRY SH+INTERBED SS		1006.999	16.000
75	544	GRY MASS SS		1022.666	15.667
76	564	HARD MASS SS		1032.666	10.000
77	323	DRK GRY SH W/SS STKS		1049.333	16.667
78	114	BLK SH		1050.583	1.250
79	544	GRY MASS SS		1074.333	23.750
80	124	DRK GRY SH		1081.208	6.875
81	021	COMMON BANDED COAL		1082.416	1.208
		* BED:UNP 20 UNP 20			
82	544	GRY MASS SS		1096.416	14.000
83	543	GRY SS W/SH STKS		1122.249	25.833

LOG# 1 [VMSNT 1 FVA] [2 1: 24000.1 10# 4

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
84	124	DRK GRY SH		1137.582	19.333
85	322	DRK GRY SH+INTERBED SS		1155.582	18.000
86	124	DRK GRY SH		1211.332	55.750
87	021	COMMON BANDED COAL		1211.624	.292
		* BED:WRC 10 WRC 10			
88	124	DRK GRY SH		1218.332	7.208
89	543	GRY SS W/SH STKS		1227.499	8.867
90	544	GRY MASS SS		1260.082	32.583
91	021	COMMON BANDED COAL		1260.374	.292
		* BED:LHP 10 LHP 10			
92	324	DRK GRY MASS SDY SH		1267.916	7.542
93	364	GRY MASS SS		1297.666	29.750
94	021	COMMON BANDED COAL		1298.874	1.208
		* BED:LHP 20 LHP 20			
95	113	BLK SH W/COAL STKS		1299.416	.542
96	324	DRK GRY MASS SDY SH		1301.416	2.000
97	322	DRK GRY SH+INTERBED SS		1313.833	12.417
98	564	HARD MASS SS		1322.250	8.417
99	543	GRY SS W/SH STKS		1344.667	22.417
100	124	DRK GRY SH		1362.334	17.667
01	124	DRK GRY SH		1362.751	.417
102	114	BLK SH		1363.156	.385
103	021	COMMON BANDED COAL		1365.334	2.198
		* BED:PCP 10 PCP 10			
104	124	DRK GRY SH		1408.334	43.000
105	021	COMMON BANDED COAL		1408.501	.167
106	124	DRK GRY SH		1448.251	79.750
107	554	XTLIZED MASS SS		1528.418	40.167
		* BED:LGA 0			
108	554	XTLIZED MASS SS	QTZ PERS	1597.001	68.588
109	754	XTLIZED QTZ PER CGL		1622.084	25.083
110	554	XTLIZED MASS SS		1641.001	18.917
111	754	XTLIZED QTZ PER CGL		1646.001	5.000
112	554	XTLIZED MASS SS	QTZ PERS	1653.168	7.167
		* BED:LGA 0			
113	021	COMMON BANDED COAL		1653.251	.083
		* BED:PCS 10			
114	027	COAL W/SH LAYERS		1653.376	.125
115	021	COMMON BANDED COAL		1653.834	.458
		* BED:PCS 10			
116	124	DRK GRY SH		1694.581	.667
117	543	GRY SS W/SH STKS		1656.001	1.500
118	124	DRK GRY SH		1657.251	1.250
119	123	DRK GRY SH W/COAL STKS		1658.147	.896
120	021	COMMON BANDED COAL		1658.199	.052
		* BED:PCS 20			
121	124	DRK GRY SH		1658.250	.031
122	027	COAL W/SH LAYERS		1658.501	.271
123	127	DRK GRY FIRECLAY		1658.543	.042
124	021	COMMON BANDED COAL		1658.585	.042

LOG=[] TVNSWT 1 (VA) 1 2 1: 24000.1 10=

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
125	124	DRK GRY SH		1658.752	.167
126	021	COMMON BANDED COAL		1659.752	1.000
		* BED:PC3 20			
127	124	DRK GRY SH		1662.169	22.417
128	540	GRY SS		1667.615	5.646
129	021	COMMON BANDED COAL		1669.607	1.792
		* BED:PC4 10 PC4 10			
130	540	GRY SS			
131	021	COMMON BANDED COAL		1715.190	25.583
		* BED:PC4 20		1715.232	.042
132	124	DRK GRY SH		1715.878	.646
133	021	COMMON BANDED COAL		1716.232	.354
134	124	DRK GRY SH		1716.308	.073
135	021	COMMON BANDED COAL		1716.347	.042
136	124	DRK GRY SH		1716.599	.052
137	021	COMMON BANDED COAL		1716.924	.125
138	124	DRK GRY SH		1716.795	.271
139	021	COMMON BANDED COAL		1717.316	.521
		* BED:PC4 20			
140	124	DRK GRY SH		1718.524	1.208
141	540	GRY SS		1736.191	17.667
142	027	COAL U/SH LAYERS		1736.358	.167
143	124	DRK GRY SH		1737.941	1.583
144	324	DRK GRY MARS SDY SH		1750.941	13.000
145	540	GRY SS		1763.691	12.750
146	124	DRK GRY SH		1774.379	10.688
147	021	COMMON BANDED COAL		1775.629	1.250
		* BED:PC3 10 PC3 10			
148	124	DRK GRY SH		1775.733	.104
149	021	COMMON BANDED COAL		1777.546	1.813
		* BED:PC3 20			
150	127	DRK GRY FIRECLAY		1777.609	.063
151	021	COMMON BANDED COAL		1778.432	.823
152	124	DRK GRY SH		1778.620	.188
153	021	COMMON BANDED COAL		1779.943	1.323
		* BED:PC3 20			
154	124	DRK GRY SH		1780.162	.219
155	021	COMMON BANDED COAL		1780.777	.615
		* BED:PC3 30 PC3 30			
156	124	DRK GRY SH		1805.027	24.250

LOG# 1 INVENT 1 (VAL) 2 1: 24000.1 100 T2

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
86	124	DRK GRY SH		922.381	18.583
87	021	COMMON BANDED COAL		924.998	2.617
		* BED:WRC 10 WRC 10			
88	124	DRK GRY SH		926.081	1.083
89	023	COAL W/BONE STKS		926.831	.750
		* BED:WRC 20			
90	023	COAL W/BONE STKS		927.081	.250
91	034	BONE		927.164	.083
		* BED:WRC 20			
92	324	DRK GRY MASS SOY SH		929.247	2.083
93	123	DRK GRY SH W/COAL STKS		929.580	.333
94	324	DRK GRY MASS SOY SH		934.997	5.417
95	124	DRK GRY SH		937.664	.667
96	021	COMMON BANDED COAL		937.831	.167
97	324	DRK GRY MASS SOY SH		949.831	12.000
98	543	GRY SS W/SH STKS		982.831	33.000
99	124	DRK GRY SH		984.164	1.333
100	021	COMMON BANDED COAL		984.997	.833
		* BED:LHP 10			
101	023	COAL W/BONE STKS		986.330	1.333
		* BED:LHP 10			
102	749	GRY SS W/COAL SPARS		993.997	7.667
103	124	DRK GRY SH		999.164	5.167
104	123	DRK GRY SH W/COAL STKS		999.331	.167
105	021	COMMON BANDED COAL		1000.598	1.267
		* BED:LHP 20 LHP 20			
106	124	DRK GRY SH		1004.415	3.817
107	324	DRK GRY MASS SOY SH		1006.748	2.333
108	553	KTILIZED SS W/SH STKS		1067.748	61.000
109	124	DRK GRY SH		1072.331	4.583
110	021	COMMON BANDED COAL		1074.914	2.583
		* BED:PC9 10 PC9 10			
111	124	DRK GRY SH		1077.414	2.500
112	124	DRK GRY SH		1078.267	.833
113	123	DRK GRY SH W/COAL STKS		1080.664	2.417
114	124	DRK GRY SH		1082.581	1.917
115	323	DRK GRY SH W/SS STKS		1107.414	24.833
116	021	COMMON BANDED COAL		1108.081	.667
		* BED:PC9 20			
117	023	COAL W/BONE STKS		1108.581	.500
		* BED:PC9 20			
118	323	DRK GRY SH W/SS STKS		1120.081	11.500
119	124	DRK GRY SH		1130.498	10.417
120	324	DRK GRY MASS SOY SH		1144.081	13.583
121	323	DRK GRY SH W/SS STKS		1174.081	30.000
122	543	GRY SS W/SH STKS		1182.498	8.417
123	124	DRK GRY SH		1204.498	22.000
124	554	KTILIZED MASS SS		1204.913	.417
		* BED:LQA 0			
125	323	DRK GRY SH W/SS STKS		1212.522	7.607

LOG# 1 DWSHT 1 DVAL 1 2 1: 26000.1 10# 72

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
125	554	XTLIZED MASS SS		1289.082	76.500
127	554	XTLIZED MASS SS		1291.499	2.417
128	554	XTLIZED MASS SS		1312.686	21.187
129	021	COMMON BANDED COAL		1312.749	.063
130	554	XTLIZED MASS SS		1339.166	26.417
131	554	XTLIZED MASS SS	PEE AND COAL	1350.583	11.417
132	544	GRY MASS SS		1353.083	2.500
133	554	XTLIZED MASS SS	PEE AND COAL	1354.291	1.208
		* BED:LOG 0			
134	021	COMMON BANDED COAL		1358.749	4.458
		* BED:PCS 20			
135	033	BONE W/COAL STKS		1358.852	.083
		* BED:PCS 20			
136	324	DRK GRY MASS SDY SH		1373.582	14.730
137	749	GRY SS W/COAL SPARS		1427.852	54.250
138	124	DRK GRY SH		1428.499	.647
139	021	COMMON BANDED COAL		1432.269	3.750
		* BED:PC4 10			
140	034	BONE		1432.332	.063
		* BED:PC4 10			
141	021	COMMON BANDED COAL		1435.457	3.125
		* BED:PC4 20			
142	030	IMPURE COAL		1435.540	.083
		* BED:PC4 20			
143	749	GRY SS W/COAL SPARS		1437.373	1.833
144	749	GRY SS W/COAL SPARS	SH STKS	1456.498	19.125
145	021	COMMON BANDED COAL		1456.540	.042
		* BED:PC3 10			
146	114	BLK SH		1456.603	.063
147	021	COMMON BANDED COAL		1457.874	1.271
		* BED:PC3 10			
148	114	BLK SH		1457.999	.125
149	021	COMMON BANDED COAL		1459.530	1.531
		* BED:PC3 20			
150	114	BLK SH		1459.572	.042
151	021	COMMON BANDED COAL		1460.739	1.167
152	114	BLK SH		1460.791	.052
153	021	COMMON BANDED COAL		1462.239	1.448
		* BED:PC3 20			
154	114	BLK SH		1462.406	.167
155	124	DRK GRY SH		1464.823	2.417
156	544	GRY MASS SS		1468.156	3.333

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

SERIAL RUN:IC1092686-003-3.00

LOG#(1 (VARIANT) 1 (V) (2 1: 24000.1 10= 7)

IDENTIFICATION SECTION

1. QUAD NAME: V88T
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #1: 73
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-223
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY CONT: L-223

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VA3
- 12.2 STATE PLANE N/S: 3609387.89
- 12.3 STATE PLANE E/W: 10460799.43
- 15.1 COMPANY GRID N/S: 21630.00
- 15.2 COMPANY GRID E/W: 21633.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: RICHMOND
19. TOWNSHIP, PARISH/DISTRICT, OR INCORPORATED PLACE: VANDANT
20. GROUND LOCATION DESCRIPTION: SHAFT A

HOLE OR SECTION DESCRIPTION

11. ELEVATION AT TOP OF HOLE OR SECTION: 7 1445.00 DRILL ANGLE 0.
2. METHOD OF ELEVATION DETERMINATION: 2
23. NAME OF PERSON LOGGING: CHURCH
24. YEAR DRILLED OR MEASURED: 1974
25. TOTAL DEPTH OF DRILL HOLE: 7 1445.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JAU
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC2
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIT)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 3/2/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 18.67' NET COAL @ 1.5'

LOG# 1 CHSMT 1 DIA [2 1: 24000.] 10= 73

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		40.000	40.000
2	564	GRY MASS SS		64.667	24.667
3	124	DRK GRY SH		72.834	8.167
4	021	COMMON BANDED COAL		74.417	1.583
		* BED:JRM 20 JAM 20			
5	324	DRK GRY MASS SOY SH		80.417	6.000
6	544	GRY MASS SS		119.834	39.417
7	749	GRY SS W/COAL SPARS		124.334	4.500
8	124	DRK GRY SH		136.334	12.000
9	543	GRY SS W/SH STKS		144.334	8.000
10	124	DRK GRY SH		159.501	15.167
11	021	COMMON BANDED COAL		160.251	.750
		* BED:TIL 20 TIL 20			
12	124	DRK GRY SH		162.251	2.000
13	021	COMMON BANDED COAL		163.084	.833
		* BED:TIL 30 TIL 30			
14	323	DRK GRY SH W/SS STKS		169.334	6.250
15	543	GRY SS W/SH STKS		180.084	10.750
16	324	DRK GRY MASS SOY SH		188.251	8.167
17	124	DRK GRY SH		260.251	72.000
18	114	BLK SH		260.751	.500
19	021	COMMON BANDED COAL		261.251	.500
		* BED:USB 10 USB 10			
20	124	DRK GRY SH		267.918	6.667
21	543	GRY SS W/SH STKS		329.251	61.333
22	124	DRK GRY SH		405.251	76.000
23	021	COMMON BANDED COAL		405.751	.500
		* BED:QVC 10			
24	124	DRK GRY SH		405.918	.167
25	021	COMMON BANDED COAL		407.668	1.750
26	034	BONE		407.751	.083
		* BED:QVC 10			
27	544	GRY MASS SS		427.751	20.000
28	749	GRY SS W/COAL SPARS		436.251	8.500
29	124	DRK GRY SH		454.584	18.333
30	543	GRY SS W/SH STKS		493.001	38.417
31	021	COMMON BANDED COAL		493.418	.417
		* BED:WBR 20 WBR 20			
32	124	DRK GRY SH		494.418	1.000
33	324	DRK GRY MASS SOY SH		503.418	9.000
34	323	DRK GRY SH W/SS STKS		512.251	8.833
35	021	COMMON BANDED COAL		512.501	.250
		* BED:LSB 10 LSB 10			
36	124	DRK GRY SH		522.501	10.000
37	543	GRY SS W/SH STKS		602.501	80.000
38	323	DRK GRY SH W/SS STKS		615.584	13.083
39	021	COMMON BANDED COAL		616.001	.417
		* BED:UNP 10 UNP 10			
40	324	DRK GRY MASS SOY SH		620.418	4.417
41	544	GRY MASS SS		639.835	19.417

LOG# 1 (VMSHT) 1 (VAT) (2 1: 24000.) 10= 73

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
42	021	COMMON BANDED COAL		640.918	1.083
		* BED:LHP 20 LHP 20			
43	124	DRK GRY SH		642.918	2.000
44	324	DRK GRY MASS SDY SH		654.418	13.500
45	544	GRY MASS SS		663.001	26.583
46	124	DRK GRY SH		664.584	1.583
47	021	COMMON BANDED COAL		665.334	.750
		* BED:MHP 10 MHP 10			
48	124	DRK GRY SH		668.301	3.167
49	324	DRK GRY MASS SDY SH		697.501	9.000
50	544	GRY MASS SS		708.668	11.167
51	124	DRK GRY SH		744.668	58.000
52	021	COMMON BANDED COAL		769.251	2.583
		* BED:WRC 10 WRC 10			
53	124	DRK GRY SH		769.918	.667
54	324	DRK GRY MASS SDY SH		782.918	13.000
55	021	COMMON BANDED COAL		783.668	.750
		* BED:WRC 20 WRC 20			
56	543	GRY SS W/SH STKS		813.835	30.167
57	021	COMMON BANDED COAL		814.335	.500
		* BED:LHP 10 LHP 10			
58	324	DRK GRY MASS SDY SH		818.418	4.083
59	124	DRK GRY SH		830.418	12.000
60	124	DRK GRY SH		831.418	1.000
61	021	COMMON BANDED COAL		833.085	1.667
		* BED:LHP 20 LHP 20			
62	324	DRK GRY MASS SDY SH		838.085	5.000
63	553	XTLIZED SS W/SH STKS		884.085	48.000
64	124	DRK GRY SH		886.502	.417
65	543	GRY SS W/SH STKS		906.502	20.000
66	021	COMMON BANDED COAL		907.232	.750
		* BED:PC9 10 PC9 10			
67	124	DRK GRY SH		924.252	17.000
68	543	GRY SS W/SH STKS		954.002	29.750
69	124	DRK GRY SH		959.002	5.000
70	123	DRK GRY SH W/COAL STES		961.335	2.333
71	124	DRK GRY SH		964.335	3.000
72	124	DRK GRY SH		997.502	33.167
73	553	XTLIZED SS W/SH STKS		1021.752	24.250
		* BED:LBA 0			
74	124	DRK GRY SH		1022.752	1.000
75	324	DRK GRY MASS SDY SH		1028.835	6.083
76	553	XTLIZED SS W/SH STKS		1039.835	11.000
77	554	XTLIZED MASS SS		1148.668	108.833
78	021	COMMON BANDED COAL		1149.460	.792
79	554	XTLIZED MASS SS		1157.543	8.083
80	021	COMMON BANDED COAL		1157.960	.417
81	750	XTLIZED COAL		1162.732	4.792
82	021	COMMON BANDED COAL		1163.335	.583
83	544	GRY MASS SS		1163.668	.333

LOG# 1 (VMSVT) 3 (VAL) I Z 1: 24000.7 10w 75

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
84	021	COMMON BANDED COAL		1163.751	.083
85	554	XTLIZED MASS SS		1165.084	1.333
86	754	XTLIZED QTZ PER CGL		1170.084	5.000
87	021	COMMON BANDED COAL		1170.751	.667
88	554	XTLIZED MASS SS		1184.251	13.500
89	754	XTLIZED QTZ PER CGL		1195.584	11.333
90	554	XTLIZED MASS SS		1204.667	9.083
		* BED:LOA 0			
91	021	COMMON BANDED COAL		1209.167	4.500
		* BED:PCS 20 PCS 20			
92	124	DRK GRY SH		1209.334	.167
93	324	DRK GRY MASS SDY SH		1218.334	9.000
94	544	GRY MASS SS		1234.667	16.333
95	749	GRY SS W/COAL SPARS		1242.834	8.167
96	021	COMMON BANDED COAL		1245.667	2.833
		* BED:PC4 10			
97	034	BONE		1245.709	.042
		* BED:PC4 10			
98	544	GRY MASS SS		1250.542	4.833
99	034	BONE		1259.750	.200
		* BED:PC4 20			
100	021	COMMON BANDED COAL		1251.417	.667
		* BED:PC4 20			
101	124	DRK GRY SH		1254.167	2.750
102	324	DRK GRY MASS SDY SH		1262.167	8.000
103	544	GRY MASS SS		1275.834	13.667
104	124	DRK GRY SH		1283.167	7.333
105	543	GRY SS W/SH STEE		1301.000	17.833
106	124	DRK GRY SH		1307.417	6.417
107	021	COMMON BANDED COAL		1307.563	.146
		* BED:PCS 10 PCS 10			
108	114	BLK SH		1307.626	.063
109	021	COMMON BANDED COAL		1311.668	4.042
		* BED:PCS 20 PCS 20			
110	124	DRK GRY SH		1316.585	4.917
111	324	DRK GRY MASS SDY SH		1335.627	19.042
112	124	DRK GRY SH		1343.794	8.167
113	030	IMPURE COAL		1343.877	.083
		* BED:PC2 10 PC2 10			
114	124	DRK GRY SH		1344.377	.500
115	030	IMPURE COAL		1344.710	.333
		* BED:PC2 20 PC2 20			
116	324	DRK GRY MASS SDY SH		1360.710	16.000
117	544	GRY MASS SS		1375.043	14.333
118	564	HARD MASS SS		1464.293	89.250

LOG#1 1 IVRENT 2 IVA7 1 2 1: 26000.1 10= 76

IDENTIFICATION SECTION

1. QUAD NAME: VRENT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 76
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-230
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY BORH: L-230

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3509605.79
- 12.3 STATE PLANE E/W: 10641565.08
- 15.1 COMPANY GRID N/S: 21099.46
- 15.2 COMPANY GRID E/W: 22598.87

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCHANAN
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE: VAHSANT
20. GROUND LOCATION DESCRIPTION: THREE FORKS

WELL OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1529.20 DRILL ANGLE 0.
2. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: CHURCH
24. YEAR DRILLED OR MEASURED: 1974
25. TOTAL DEPTH OF DRILL HOLE: F 1365.330
26. BED CORE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JAN
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIP)
- 30.2 METHOD(S) OF MEASUREMENT: 1(TMC)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 5/2/87
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA:

LOG#(3 DWGHT 2 TVAL E 2 1: 24000.1 10= 74

LINE	CODE	DESCRIPTION	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		15.000	15.000
2	544	GRY MASS SS		57.750	42.750
3	124	DRK GRY SH		83.833	26.083
4	021	COMMON BANDED COAL		94.666	.833
		* BED:JAM 10 JAM 10			
5	544	GRY MASS SS	COAL STRKS	135.166	50.500
6	021	COMMON BANDED COAL		136.666	1.500
		* BED:JAM 20 JAM 20			
7	124	DRK GRY SH		142.749	6.083
8	544	GRY MASS SS	COAL STRKS	205.749	63.000
9	323	DRK GRY SH W/SS STKS		235.499	29.750
10	021	COMMON BANDED COAL		239.832	.333
		* BED:TIL 20 TIL 20			
11	124	DRK GRY SH		238.062	2.250
12	021	COMMON BANDED COAL		239.749	.667
		* BED:TIL 30 TIL 30			
13	124	DRK GRY SH		260.082	1.333
14	544	GRY MASS SS		256.163	16.083
15	323	DRK GRY SH W/SS STKS		331.665	75.500
16	021	COMMON BANDED COAL		332.165	.500
		* BED:USB 10 USB 10			
17	124	DRK GRY SH		340.582	8.417
18	544	GRY MASS SS		374.582	34.000
19	021	COMMON BANDED COAL		375.582	1.000
		* BED:USB 20 USB 20			
20	124	DRK GRY SH		377.249	1.667
21	543	GRY SS W/SH STKS		391.332	14.083
22	124	DRK GRY SH		465.499	74.167
23	021	COMMON BANDED COAL		467.166	1.667
		* BED:NYC 10 NYC 10			
24	544	GRY MASS SS		497.999	30.833
25	124	DRK GRY SH		514.499	16.500
26	323	DRK GRY SH W/SS STKS		552.749	38.250
27	124	DRK GRY SH		554.416	1.667
28	543	GRY SS W/SH STKS		564.583	10.167
29	124	DRK GRY SH		569.583	5.000
30	324	DRK GRY MASS SDY SH		570.250	.667
31	028	COAL W/SH STKS		570.750	.500
		* BED:LSS 10 LSS 10			
32	323	DRK GRY SH W/SS STKS		574.667	3.917
33	021	COMMON BANDED COAL		574.917	.250
		* BED:LSS 20 LSS 20			
34	323	DRK GRY SH W/SS STKS		593.617	19.000
35	543	GRY SS W/SH STKS		675.000	81.083
36	124	DRK GRY SH		686.583	11.583
37	021	COMMON BANDED COAL		688.333	1.750
		* BED:UHP 10 UHP 10			
38	544	GRY MASS SS		701.250	12.917
39	124	DRK GRY SH		703.250	2.000
40	021	COMMON BANDED COAL		705.250	2.000
		* BED:UHP 20 UHP 20			

LOG#(1 (VMSHT 1 (VA) 1 2 1: 24000.0) 10= 74

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
41	323	DRK GRY SH W/SS STKS		721.417	16.167
42	343	GRY SS W/SH STKS		738.750	17.333
43	124	DRK GRY SH		739.583	.833
44	021	COMMON BANDED COAL		741.166	1.583
		* BED:MNP 10 MNP 10			
45	124	DRK GRY SH		741.666	.500
46	124	DRK GRY SH		743.666	2.000
47	543	GRY SS W/SH STKS		765.666	22.000
48	323	DRK GRY SH W/SS STKS		769.666	4.000
49	124	DRK GRY SH		819.249	49.583
50	021	COMMON BANDED COAL		822.166	2.917
		* BED:URC 10 URC 10			
51	124	DRK GRY SH		823.749	1.583
52	124	DRK GRY SH		824.416	.667
53	324	DRK GRY MASS 30Y SH		831.916	7.500
54	543	GRY SS W/SH STKS		840.583	8.667
55	124	DRK GRY SH		841.583	1.000
56	114	BLK SH		842.250	.667
57	021	COMMON BANDED COAL		842.750	.500
		* BED:URC 20 URC 20			
58	544	GRY MASS SS		870.750	28.000
59	124	DRK GRY SH		871.833	1.083
60	544	GRY MASS SS		872.333	.500
61	021	COMMON BANDED COAL		873.250	.917
		* BED:LHP 10 LHP 10			
62	124	DRK GRY SH		874.250	1.000
63	543	GRY SS W/SH STKS		883.500	9.250
64	124	DRK GRY SH		892.167	8.667
65	021	COMMON BANDED COAL		893.750	1.583
		* BED:LHP 20 LHP 20			
66	124	DRK GRY SH		893.750	1.000
67	324	DRK GRY MASS 30Y SH		899.750	6.000
68	543	GRY SS W/SH STKS		904.500	4.750
69	553	ATLIZED SS W/SH STKS		949.500	45.000
70	323	DRK GRY SH W/SS STKS		952.750	3.250
71	124	DRK GRY SH		965.167	12.417
72	021	COMMON BANDED COAL		967.750	2.583
		* BED:PCD 10 PCD 10			
73	124	DRK GRY SH		971.750	4.000
74	323	DRK GRY SH W/SS STKS		989.000	17.250
75	544	GRY MASS SS		996.333	7.333
76	124	DRK GRY SH		1009.583	13.250
77	021	COMMON BANDED COAL		1010.333	.750
		* BED:PCD 20 PCD 20			
78	124	DRK GRY SH		1028.000	17.667
79	323	DRK GRY SH W/SS STKS		1035.000	7.000
80	124	DRK GRY SH		1061.583	26.583
81	553	ATLIZED SS W/SH STKS		1072.833	11.250
		* BED:LQA 0			
82	124	DRK GRY SH		1077.666	4.833

LOG#1 1 (VMSMT) 3 (VAG) (2 1: 24000.) (DN) 74

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
83	554	XTLIZED MASS SS			
84	323	DRK GRY SH W/SS STKS		1082.666	5.000
85	554	XTLIZED MASS SS		1091.249	8.583
86	554	XTLIZED MASS SS		1199.832	108.583
87	021	COMMON BANDED COAL	PEB	1203.415	3.583
88	554	XTLIZED MASS SS		1203.665	.250
89	021	COMMON BANDED COAL		1205.332	1.667
90	554	XTLIZED MASS SS		1205.415	.083
91	021	COMMON BANDED COAL	PEGS	1210.248	4.833
92	554	XTLIZED MASS SS		1210.415	.167
93	554	XTLIZED MASS SS	CEL & COAL STRKS	1212.415	2.000
94	553	XTLIZED SS W/SH STKS		1249.632	37.417
95	554	XTLIZED MASS SS		1251.665	1.833
		* BED:LOA 0	PEB	1253.165	1.500
96	021	COMMON BANDED COAL		1257.332	4.167
		* BED:PCS 20			
97	034	BONE		1257.457	.125
		* BED:PCS 20			
98	324	DRK GRY MASS SDY SH		1262.749	5.292
99	124	DRK GRY SH		1263.416	.667
100	324	DRK GRY MASS SDY SH		1265.583	2.167
101	544	GRY MASS SS		1316.166	50.583
102	324	DRK GRY MASS SDY SH		1324.166	8.000
103	323	DRK GRY SH W/SS STKS		1327.083	2.917
104	124	DRK GRY SH		1330.333	3.250
105	123	DRK GRY SH W/COAL STKS		1331.500	1.167
106	021	COMMON BANDED COAL		1338.667	7.167
		* BED:PC4 10 PC4 10			
107	034	BONE		1339.084	.417
		* BED:PC4 20			
108	021	COMMON BANDED COAL		1339.709	.625
		* BED:PC4 20			
109	749	GRY SS W/COAL SPARS		1345.251	5.542
110	124	DRK GRY SH		1345.918	.667
111	544	GRY MASS SS		1347.251	1.333
112	124	DRK GRY SH		1349.634	2.383
113	021	COMMON BANDED COAL		1351.230	1.396
		* BED:PCS 10 PCS 10			
114	114	BLK SH		1351.303	.073
115	021	COMMON BANDED COAL		1351.876	.573
		* BED:PCS 20			
116	114	BLK SH		1351.930	.063
117	021	COMMON BANDED COAL		1356.210	4.271
		* BED:PCS 20			
118	124	DRK GRY SH		1357.377	1.167
119	323	DRK GRY SH W/SS STKS		1365.044	7.667

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

SERIAL NUM: 1C1092886-003-3.00

LOG# 1] EVNSHT 3 (VA) 1 2 1: 24000.1 ID# 61

IDENTIFICATION SECTION

1. QUAD NAME: VNSHT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 61
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-245
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY OR NAME: L-245

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VA
- 12.2 STATE PLANE N/S: 3603435.16
- 12.3 STATE PLANE E/W: 10431922.95
- 15.1 COMPANY GRID N/S: 17449.04
- 15.2 COMPANY GRID E/W: 13077.49

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: RICHMOND
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION: HURRICANE CR. NEAR DESKING

HOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 1814.90 DRILL ANGLE D.
22. METHOD OF ELEVATION DETERMINATION: S
23. NAME OF PERSON LOGGING: COE
24. YEAR DRILLED OR MEASURED: 1975
25. TOTAL DEPTH OF DRILL HOLE: F 2130.000
26. BED CODE REGION IDENTIFIER: MAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: LBN
28. CODE OF LOWERMOST IDENTIFIABLE BED: N/G
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIT)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DSL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 2/23/87
- LAST MODIFIED BY: DSL
- DATE: 9/3/1992
- USER DATA: 10.66' NET COAL @ 1.5'

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

SERIAL NUM:101092685-003-3.00

LOG# 1 CYRANT 1 (VA) 1 2 1: 24000.1 10= A1

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE			
2	544	GRY MASS SS		30.000	30.000
3	324	DRK GRY MASS SDY SH		43.000	13.000
4	124	DRK GRY SH		53.417	10.417
5	020	COAL		53.584	2.167
		* BED: LBN TO LHM 10		56.001	.417
6	114	BLK SH			
7	324	DRK GRY MASS SDY SH		56.168	.167
8	543	GRY SS W/SH STKS		59.168	3.000
9	124	DRK GRY SH		60.835	9.667
10	324	DRK GRY MASS SDY SH		73.418	4.583
11	543	GRY SS W/SH STKS		85.418	12.000
12	323	DRK GRY SH W/SH STKS		126.835	41.417
13	114	BLK SH		158.002	31.167
14	124	DRK GRY SH		180.752	22.750
15	114	BLK SH		191.333	10.583
16	324	DRK GRY MASS SDY SH		201.502	10.167
17	020	COAL		204.669	3.167
		* BED: K2H 10		204.919	.250
18	124	DRK GRY SH			
19	020	COAL		205.586	.667
		* BED: K2H 10		206.753	1.167
20	124	DRK GRY SH			
21	544	GRY MASS SS		207.336	.583
22	324	DRK GRY MASS SDY SH		275.003	67.667
23	020	COAL		317.586	42.583
		* BED: ALY 10 ALY 10		318.086	.500
24	324	DRK GRY MASS SDY SH			
25	544	GRY MASS SS		321.086	3.000
26	324	DRK GRY MASS SDY SH		346.919	25.833
27	020	COAL		355.169	8.250
		* BED: ALY 20 ALY 20		356.752	1.583
28	114	BLK SH			
29	543	GRY SS W/SH STKS		358.002	1.250
30	544	GRY MASS SS		362.085	4.083
31	324	DRK GRY MASS SDY SH		369.002	6.917
32	114	BLK SH		381.002	12.000
33	323	DRK GRY SH W/SH STKS		399.419	18.417
34	124	DRK GRY SH		401.419	2.000
35	114	BLK SH		418.336	16.917
36	020	COAL		428.836	10.500
		* BED: RVN 0		430.003	1.167
37	124	DRK GRY SH			
38	113	BLK SH W/COAL STKS		432.253	2.250
39	114	BLK SH		432.920	.667
40	020	COAL		435.920	3.000
		* BED: RVN 20 RVN 20		436.253	.333
41	114	BLK SH			
42	543	GRY SS W/SH STKS		440.670	4.417
43	324	DRK GRY MASS SDY SH		464.420	23.750
				470.337	5.917

LOG#(1) EVENT 7 (VAL 1 2 1: 24000.1 10* 01

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
44	544	GRY MASS SS		517.254	46.917
45	114	BLK SH		544.587	27.333
46	020	COAL		546.087	1.500
		* BED:JAW 10 JAN 10			
47	114	BLK SH		546.337	.250
48	124	DRK GRY SH		566.754	20.417
49	020	COAL		567.254	.500
		* BED:JAW 15 JAN 15			
50	124	DRK GRY SH		578.587	11.333
51	114	BLK SH		578.920	.333
52	020	COAL		579.753	.833
		* BED:JAW 20 JAN 20			
53	114	BLK SH		580.253	.500
54	324	DRK GRY MASS SDY SH		586.753	6.500
55	544	GRY MASS SS		621.003	34.250
56	749	GRY SS W/COAL SPARS		625.170	4.167
57	114	BLK SH		625.337	.167
58	020	COAL		625.754	.417
		* BED:TIL 10 TIL 10			
59	114	BLK SH		626.171	.417
60	324	DRK GRY MASS SDY SH		635.671	9.500
61	114	BLK SH		659.833	24.167
62	020	COAL		660.005	.167
		* BED:TIL 20 TIL 20			
63	114	BLK SH		660.172	.167
64	324	DRK GRY MASS SDY SH		673.339	13.167
65	114	BLK SH		674.339	1.000
66	020	COAL		675.339	1.000
		* BED:TIL 30 TIL 30			
67	114	BLK SH		675.506	.167
68	324	DRK GRY MASS SDY SH		677.589	2.083
69	543	GRY SS W/SH STKS		695.922	18.333
70	114	BLK SH		769.589	73.667
71	020	COAL		770.256	.667
		* BED:USB 10 USB 10			
72	114	BLK SH		770.423	.167
73	324	DRK GRY MASS SDY SH		771.840	1.417
74	544	GRY MASS SS		800.507	28.667
75	020	COAL		801.174	.667
		* BED:USB 20 USB 20			
76	114	BLK SH		804.841	3.667
77	544	GRY MASS SS		842.674	37.833
78	544	HARD MASS SS		944.674	102.000
		* BED:NOA 0			
79	764	HARD QTZ PER COL		946.674	2.000
		* BED:NOA 0			
80	543	GRY SS W/SH STKS		956.174	11.500
81	114	BLK SH		984.007	27.833
82	323	DRK GRY SH W/SS STKS		989.424	5.417
83	324	DRK GRY MASS SDY SH		1004.174	14.750

>J 1 EVASNT 1 EMBR [2 9: 24000.1 10= 61

LINE	DEPTH	DESCRIPTION	COMPUTATIVE	DIFF
85	114	BLK SH	1009.674	.500
85	828	COAL	1010.674	1.000
		* BED:MSS 10 MSS 10		
86	114	BLK SH	1010.757	.083
87	324	DRK GRV MASS SOY SH	1080.590	19.833
88	113	BLK SH W/COAL STKS	1053.923	3.333
89	020	COAL	1054.056	.167
		* BED:MSS 20 MSS 20		
90	124	DRK GRV SH	1060.757	6.667
91	543	GRV SS W/SH STKS	1121.840	61.083
92	313	BLK SH W/SS STKS	1131.007	29.167
93	114	BLK SH	1133.924	22.917
94	124	DRK GRV SH	1165.924	12.000
95	020	COAL	1166.174	.250
		* BED:LHP 20		
96	114	BLK SH	1166.541	.167
97	544	GRV MASS SH	1166.674	.333
98	114	BLK SH	1166.757	.083
99	020	COAL	1168.090	1.333
		* BED:LHP 20		
	124	DRK GRV SH	1171.173	3.083
101	313	BLK SH W/SS STKS	1177.006	5.833
102	323	DRK GRV SH W/SS STKS	1207.006	30.000
103	114	BLK SH	1207.339	.333
104	020	COAL	1208.256	.917
		* BED:MHP 10 MHP 10		
105	114	BLK SH	1209.423	1.167
106	324	DRK GRV MASS SOY SH	1223.006	13.583
107	313	BLK SH W/SS STKS	1252.506	29.500
108	114	BLK SH	1293.173	40.667
109	324	DRK GRV MASS SOY SH	1294.756	1.583
110	749	GRV SS W/COAL SPARS	1317.006	22.250
111	543	GRV SS W/SH STKS	1340.673	23.667
112	020	COAL	1341.006	.333
		* BED:WRC 20 WRC 20		
113	324	DRK GRV MASS SOY SH	1341.673	.667
114	544	GRV MASS SS	1343.756	2.083
115	324	DRK GRV MASS SOY SH	1345.589	1.833
116	544	GRV MASS SS	1393.839	48.250
117	114	BLK SH	1397.172	3.333
118	020	COAL	1399.172	2.000
		* BED:LHP 20 LHP 20		
119	114	BLK SH	1400.672	1.500
120	543	GRV SS W/SH STKS	1412.005	11.333
121	313	BLK SH W/SS STKS	1454.338	42.333
122	114	BLK SH	1454.588	.250
123	020	COAL	1457.171	2.583
		* BED:PC9 10 PC9 10		
124	113	BLK SH W/COAL STKS	1463.171	6.000
125	114	BLK SH	1453.754	.583

LOG=1 1 INWENT 1 DIA1 [2 11 24000.1 10= 61

LINE	CODE	DESCRIPTION	COMMENTS	CUMULATIVE	UNIT
126	114	BLK SH		1463.754	2.000
127	313	BLK SH W/SS STKS		1476.421	10.667
128	544	GRY MASS SS		1484.754	3.333
129	313	BLK SH W/SH STKS		1496.754	12.000
130	114	BLK SH		1510.671	13.917
131	020	COAL		1511.504	.833
* BED:PC9 20 PC9 20					
132	113	BLK SH W/COAL STKS		1514.171	2.667
133	114	BLK SH		1544.588	30.417
134	543	GRY SS W/SH STKS		1559.671	15.083
135	114	BLK SH		1560.838	1.167
136	124	DRK GRY SH		1567.838	7.000
137	543	GRY SS W/SH STKS		1590.505	22.667
138	564	HARD MASS SS		1609.005	18.500
* BED:LGA 0					
139	563	HARD SS W/SH STKS		1624.172	15.167
140	564	HARD MASS SS		1676.839	52.667
141	764	HARD QTZ PEB COL		1682.922	6.083
142	564	HARD MASS SS		1700.005	17.083
143	769	HARD SS W/COAL SPARS		1710.422	10.417
144	564	HARD MASS SS		1721.172	10.750
145	764	HARD QTZ PEB COL		1724.172	3.000
146	564	HARD MASS SS		1735.589	11.417
147	764	HARD QTZ PEB COL		1751.256	15.667
148	564	HARD MASS SS		1756.923	5.667
* BED:LGA 0					
149	113	BLK SH W/COAL STKS		1761.590	4.667
150	020	COAL		1762.840	1.250
* BED:PCS 10 PCS 10					
151	114	BLK SH		1763.007	.167
152	124	DRK GRY SH		1788.174	25.167
153	123	DRK GRY SH W/COAL STKS		1788.841	.667
154	020	COAL		1789.341	.500
* BED:PCS 20					
155	113	BLK SH W/COAL STKS		1790.424	1.083
156	124	DRK GRY SH		1790.591	.167
157	114	BLK SH		1790.758	.167
158	124	DRK GRY SH		1790.925	.167
159	114	BLK SH		1791.008	.083
160	020	COAL		1795.008	4.000
* BED:PCS 20					
161	114	BLK SH		1795.173	.167
162	324	DRK GRY MASS GRY SH		1824.675	29.500
163	020	COAL		1825.925	1.250
* BED:PCA 10 PCA 10					
164	114	BLK SH		1826.258	.333
165	324	DRK GRY MASS GRY SH		1832.758	6.500
166	543	GRY SS W/SH STKS		1853.091	20.333
167	124	DRK GRY SH		1855.924	2.833
168	020	COAL		1856.341	.417
* BED:PCA 20 PCA 20					

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

SERIAL NUM:IC1092686-003-3,00

LOG#1 1 INSHW 1 DIA 1 2 1: 24000.1 10+ 61

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
169	324	DRK GRY MASS SUT SH		1888.258	31.917
170	114	BLK SH		1889.841	1.583
171	030	IMPURE COAL		1890.591	.750
* BED:PC3 10 PC3 10					
172	114	BLK SH		1891.174	.583
173	124	DRK GRY SH		1896.007	4.833
174	114	BLK SH		1902.007	6.000
175	124	DRK GRY SH		1905.840	3.833
176	114	BLK SH		1915.840	10.000
177	324	DRK GRY MASS SDY SH		1917.840	2.000
178	114	BLK SH		1918.507	.667
179	020	COAL		1919.007	.500
* BED:PC2 10 PC2 10					
180	114	BLK SH		1919.174	.167
181	124	DRK GRY SH		1919.674	.500
182	544	GRY MASS SS		1920.674	1.000
183	324	DRK GRY MASS SDY SH		1925.037	4.333
184	544	GRY MASS SS		1927.007	2.000
185	314	BLK MASS SDY SH		1930.990	3.983
186	564	HARD MASS SS		1959.007	28.417
87	313	SLK SH W/SS STES		1960.674	1.667
88	564	HARD MASS SS		2007.924	47.250
189	114	BLK SH		2014.591	6.667
190	544	GRY MASS SS		2041.674	27.083
191	124	DRK GRY SH		2043.257	1.583
192	544	GRY MASS SS		2065.340	22.083
193	114	BLK SH		2070.340	5.000
194	544	GRY MASS SS		2075.340	5.000
195	124	DRK GRY SH		2081.590	6.250
196	144	GRN SH		2083.590	4.000
* BED:R/O 0					
197	164	RED SH		2086.007	.417
198	144	GRN SH		2089.007	3.000
199	164	RED SH		2090.007	1.000
200	134	RED+GRN SH		2093.007	3.000
201	144	GRN SH		2112.007	19.000
202	124	DRK GRY SH		2129.007	17.000

LOG# 1 (VMSNT) 1 (V4) (2 1) 24000.1 ID= 271

IDENTIFICATION SECTION

1. QUAD NAME: VMSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 271
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: V5.90
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DRAW: V5.90

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3608332.30
- 12.3 STATE PLANE E/U: 10435607.91
- 15.1 COMPANY GRID N/S: 20437.88
- 15.2 COMPANY GRID E/U: 16741.22

CIVIL DISTRICT WHERE LOCATED

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

REHOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 2120.00 DRILL ANGLE 0.
2. METHOD OF ELEVATION DETERMINATION:
23. NAME OF PERSON LOGGING: SCHLUMBERGER
24. YEAR DRILLED OR MEASURED: 0
25. TOTAL DEPTH OF DRILL HOLE: F 2181.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: KEN
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC6
- 29.1 KIND OF RECORD: E
- 29.2 METHOD OF LITHO DESCRIPTION: 1TC00E1
- 30.1 UNITS OF MEASUREMENT: 2IFT J
- 30.2 METHOD(S) OF MEASUREMENT: 1ITHK 1

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: HWY
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 8/22/91
- LAST MODIFIED BY: DEL
- DATE: 9/3/1992
- USER DATA: 999.00' NET COAL @ 1.5'

LOG#1 1 TVNSHT 1 (VA) C 2 1: 26000.3 10= 271

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		100.000	100.000
2	324	DRK GRY MASS SDY SH		204.000	104.000
3	500	SS		221.000	17.000
4	021	COMMON BANDED COAL		223.000	2.000
		* BED:KEN 10 KEN 10			
5	500	SS		259.000	36.000
6	001	CASING OR SURFACE		262.000	3.000
7	500	SS		269.000	7.000
8	324	DRK GRY MASS SDY SH		291.000	22.000
9	104	SH		321.000	30.000
10	500	SS		348.000	27.000
11	104	SH		351.000	3.000
12	021	COMMON BANDED COAL		353.000	2.000
		* BED:ALY 20 ALY 20			
13	104	SH		392.000	39.000
14	324	DRK GRY MASS SDY SH		417.000	25.000
15	021	COMMON BANDED COAL		419.000	2.000
		* BED:RYN 20 RYN 20			
16	324	DRK GRY MASS SDY SH		430.000	11.000
17	500	SS		509.000	79.000
18	104	SH		551.000	42.000
19	021	COMMON BANDED COAL		553.000	2.000
		* BED:JAM 10 JAM 10			
20	104	SH		563.000	10.000
21	324	DRK GRY MASS SDY SH		570.000	7.000
22	500	SS		583.000	13.000
23	104	SH		593.000	10.000
24	021	COMMON BANDED COAL		593.000	2.000
		* BED:JAM 20 JAM 20			
25	104	SH		601.000	8.000
26	500	SS		655.000	54.000
27	104	SH		673.000	18.000
28	030	IMPURE COAL		675.000	2.000
		* BED:TIL 20 TIL 20			
29	104	SH		686.000	11.000
30	030	IMPURE COAL		687.000	1.000
		* BED:TIL 30 TIL 30			
31	104	SH		691.000	4.000
32	324	DRK GRY MASS SDY SH		710.000	19.000
33	104	SH		796.000	86.000
34	021	COMMON BANDED COAL		798.000	.000
		* BED:USB 10 USB 10			
35	500	SS		816.000	20.000
36	104	SH		819.000	3.000
37	021	COMMON BANDED COAL		821.000	2.000
		* BED:USB 20 USB 20			
38	104	SH		826.000	5.000
39	500	SS		894.000	68.000
40	590	XTLIZED SS		933.000	39.000
		* BED:M2A 10 M2A 10			

LOG# 1 IVNSHT 2 DIA 12 1: 34000.1 10= 271

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
41	021	COMMON BANDED COAL		935.000	2.000
		* BED:GYC 10 GYC 10			
42	324	DRK GRY MASS SDY SH		938.000	3.000
43	500	SS		958.000	20.000
44	104	SH		963.000	5.000
45	324	DRK GRY MASS SDY SH		968.000	5.000
46	104	SH		1002.000	34.000
47	324	DRK GRY MASS SDY SH		1018.000	16.000
48	104	SH		1026.000	8.000
49	021	COMMON BANDED COAL		1028.000	2.000
		* BED:LGB 10 LGB 10			
50	324	DRK GRY MASS SDY SH		1042.000	14.000
51	104	SH		1056.000	14.000
52	324	DRK GRY MASS SDY SH		1072.000	16.000
53	500	SS		1092.000	20.000
54	324	DRK GRY MASS SDY SH		1102.000	10.000
55	324	DRK GRY MASS SDY SH		1128.000	26.000
56	104	SH		1146.000	18.000
57	021	COMMON BANDED COAL		1148.000	2.000
		* BED:UNP 10 UNP 10			
58	104	SH		1156.000	8.000
59	500	SS		1174.000	18.000
60	104	SH		1176.000	4.000
61	021	COMMON BANDED COAL		1180.000	2.000
		* BED:UNP 20 UNP 20			
62	324	DRK GRY MASS SDY SH		1216.000	36.000
63	021	COMMON BANDED COAL		1218.000	2.000
		* BED:MNP 10 MNP 10			
64	324	DRK GRY MASS SDY SH		1229.000	11.000
65	500	SS		1248.000	19.000
66	104	SH		1314.000	66.000
		* BED:BLG 10 BLG 10			
67	500	SS		1328.000	14.000
68	324	DRK GRY MASS SDY SH		1341.000	13.000
69	500	SS		1352.000	11.000
70	324	DRK GRY MASS SDY SH		1357.000	5.000
71	500	SS		1397.000	40.000
72	104	SH		1400.000	3.000
73	021	COMMON BANDED COAL		1402.000	2.000
		* BED:LNP 20 LNP 20			
74	324	DRK GRY MASS SDY SH		1420.000	18.000
75	500	SS		1425.000	5.000
76	324	DRK GRY MASS SDY SH		1429.000	4.000
77	500	SS		1438.000	9.000
78	324	DRK GRY MASS SDY SH		1451.000	13.000
79	104	SH		1467.000	16.000
80	021	COMMON BANDED COAL		1471.000	4.000
		* BED:PC9 10 PC9 10			
1	104	SH		1490.000	19.000
82	324	DRK GRY MASS SDY SH		1499.000	9.000

LOG# 1 IVNSW 1 DIA 1 2 1: 24000-1 10= 271

LINE	CODE	ENGLISH	COMMENT	CUMULATIVE	UNIT
83	104	SH			
84	021	COMMON BANDED COAL		1505.000	6.000
		* BED:PC9 20 PC9 20		1506.000	1.000
85	104	SH			
86	324	DRK GRY MASS SDY SH		1520.000	14.000
87	104	SH		1533.000	13.000
88	324	DRK GRY MASS SDY SH		1552.000	19.000
89	104	SH		1569.000	17.000
90	543	GRY SS W/SH STKS		1577.000	8.000
91	324	DRK GRY MASS SDY SH		1597.000	20.000
92	500	SS		1602.000	5.000
93	550	XTLIZED SS		1610.000	8.000
		* BED:LQA 10 LQA 10		1693.000	83.000
94	021	COMMON BANDED COAL		1695.000	2.000
		* BED:PC6 10 PC6 10			
95	500	SS			
96	550	XTLIZED SS		1708.000	13.000
		* BED:LQA 20		1727.000	19.000
97	500	SS			
98	550	XTLIZED SS		1738.000	11.000
		* BED:LQA 20		1750.000	12.000
99	324	DRK GRY MASS SDY SH			
100	030	IMPURE COAL		1755.000	5.000
		* BED:PCS 10 PCS 10		1756.000	1.000
101	104	SH			
102	021	COMMON BANDED COAL		1765.000	9.000
		* BED:PCS 20 PCS 20		1767.000	2.000
103	324	DRK GRY MASS SDY SH			
104	104	SH		1774.000	7.000
105	324	DRK GRY MASS SDY SH		1778.000	4.000
106	021	COMMON BANDED COAL		1792.000	14.000
		* BED:PCS 25 PCS 25		1796.000	4.000
107	324	DRK GRY MASS SDY SH			
108	500	SS		1801.000	5.000
109	021	COMMON BANDED COAL		1810.000	9.000
		* BED:PCA 10 PCA 10		1812.000	2.000
110	324	DRK GRY MASS SDY SH			
111	001	CASING OR SURFACE		1847.000	35.000
				1852.000	5.000

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

SERIAL NUM:IC1092686-003-5.00

LOG# 1 1 EVNGMT 1 (VAD 1 2 1: 24000.1) ID# 266

IDENTIFICATION SECTION

1. QUAD NAME: VHSNT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 266
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: VS.91
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DOWH: VS.91

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/E: 3606772.65
- 12.3 STATE PLANE E/W: 10435633.24
- 15.1 COMPANY GRID N/S: 18871.66
- 15.2 COMPANY GRID E/W: 16750.05

CIVIL DISTRICT WHERE LOCATED

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

LOGHOLE OR SECTION DESCRIPTION

1. ELEVATION AT TOP OF HOLE OR SECTION: F 2266.00 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: B
23. NAME OF PERSON LOGGING: SCHLUMBERGER
24. YEAR DRILLED OR MEASURED: 0
25. TOTAL DEPTH OF DRILL HOLE: F 2275.000
26. NET CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: KEN
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(LITHO)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: PBT
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 8-22-91
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 12.50' NET COAL @ 1.5'

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

SERIAL NUM:1C1092686-003-3.00

LOG# 1 IVMSNT 1 IVAJ 1 2 1: 24000.1 ID= 266

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASTING OR SURFACE			
2	500	SS		100.000	100.000
3	324	DRK GRY MASS SDY SH		122.000	22.000
4	500	SS		160.000	38.000
5	524	DRK GRY MASS SDY SH		192.000	32.000
6	021	COMMON BANDED COAL		195.000	3.000
7	324	DRK GRY MASS SDY SH		197.000	2.000
8	021	COMMON BANDED COAL		223.000	26.000
9	324	DRK GRY MASS SDY SH		225.000	2.000
10	500	SS		236.000	11.000
11	104	SH		265.000	29.000
12	500	SS		270.000	5.000
13	322	DRK GRY SH+INTERBED SS		313.000	43.000
14	500	SS		352.000	39.000
15	322	DRK GRY SH+INTERBED SS		360.000	8.000
16	500	SS		414.000	54.000
17	322	DRK GRY SH+INTERBED SS		466.000	52.000
18	500	SS		476.000	10.000
19	324	DRK GRY MASS SDY SH		490.000	14.000
20	500	SS		544.000	54.000
21	021	COMMON BANDED COAL		563.000	19.000
22	500	SS		565.000	2.000
23	324	DRK GRY MASS SDY SH		640.000	75.000
24	104	SH		654.000	14.000
25	324	DRK GRY MASS SDY SH		665.000	11.000
26	500	SS		674.000	9.000
27	322	DRK GRY SH+INTERBED SS		705.000	31.000
28	021	COMMON BANDED COAL		709.000	4.000
* BED:ALY 20 ALY 20				710.000	1.000
29	324	DRK GRY MASS SDY SH			
30	104	SH		726.000	16.000
31	324	DRK GRY MASS SDY SH		750.000	24.000
32	104	SH		769.000	19.000
33	500	SS		777.000	8.000
34	104	SH		870.000	93.000
35	021	COMMON BANDED COAL		909.000	39.000
* BED:JAN 10 JAN 10				910.000	1.000
36	104	SH			
37	500	SS		926.000	16.000
38	104	SH		952.000	26.000
39	021	COMMON BANDED COAL		955.000	3.000
* BED:JAN 20 JAN 20				956.000	1.000
40	104	SH			
41	500	SS		963.000	7.000
42	322	DRK GRY SH+INTERBED SS		1021.000	58.000
43	021	COMMON BANDED COAL		1036.000	15.000
* BED:TIL 20 TIL 20				1038.000	2.000
44	322	DRK GRY SH+INTERBED SS			
45	021	COMMON BANDED COAL		1047.000	9.000
* BED:TIL 30 TIL 30				1049.000	2.000

PAGE: 3 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:101092686-003-3.00

LOG# 1 EVENT 1 DIA 12 1: 24000.1 10= 260

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
46	322	DRK GRY SH+INTERBED SS		1056.000	7.000
47	500	SS		1063.000	7.000
48	324	DRK GRY MASS SDY SH		1139.000	76.000
49	104	SH		1150.000	11.000
50	021	COMMON BANDED COAL		1150.000	.000
* BED:USB 10 USB 10					
51	500	SS		1177.000	27.000
52	104	SH		1178.000	1.000
53	021	COMMON BANDED COAL		1179.000	1.000
* BED:USB 20 USB 20					
54	322	DRK GRY SH+INTERBED SH		1196.000	17.000
55	500	SS		1248.000	52.000
56	550	XTLIZED SS		1254.000	6.000
* BED:MGA 10					
57	500	SS		1267.000	13.000
58	550	XTLIZED SS		1290.000	23.000
* BED:MGA 10					
59	324	DRK GRY MASS SDY SH		1306.000	16.000
60	500	SS		1332.000	26.000
61	104	SH		1363.000	31.000
62	324	DRK GRY MASS SDY SH		1378.000	15.000
63	021	COMMON BANDED COAL		1380.000	2.000
* BED:LSB TO LSB 10					
64	324	DRK GRY MASS SDY SH		1396.000	14.000
65	500	SS		1407.000	11.000
66	104	SH		1421.000	14.000
67	500	SS		1466.000	45.000
68	322	DRK GRY SH+INTERBED SS		1485.000	19.000
69	500	SS		1488.000	3.000
70	322	DRK GRY SH+INTERBED SS		1520.000	32.000
71	500	SS		1538.000	18.000
72	104	SH		1541.000	3.000
73	021	COMMON BANDED COAL		1542.000	1.000
* BED:UMP 20 UMP 20					
74	322	DRK GRY SH+INTERBED SS		1558.000	16.000
75	500	SS		1597.000	39.000
76	104	SH		1637.000	40.000
* BED:RLS 10					
77	324	DRK GRY MASS SDY SH		1670.000	33.000
* BED:RLS 10					
78	500	SS		1687.000	17.000
79	104	SH		1701.000	14.000
80	500	SS		1736.000	35.000
81	324	DRK GRY MASS SDY SH		1741.000	5.000
82	500	SS		1755.000	14.000
83	104	SH		1761.000	6.000
84	021	COMMON BANDED COAL		1763.000	2.000
* BED:UMP 20 UMP 20					
85	104	SH		1766.000	3.000
86	500	SS		1811.000	45.000

LOG=1 1 DWENT 1 (VA) 1 2 1: 24000,1 10= 266

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
87	324	DRK GRY MASS SDY SH		1821.000	10.000
88	021	COMMON BANDED COAL		1823.000	2.000
		* BED:PC9 10 PC9 10			
89	104	SH		1837.000	14.000
90	500	SS		1846.000	9.000
91	322	DRK GRY SH+INTERBED SS		1890.000	44.000
92	104	SH		1907.000	17.000
93	543	GRY SS W/SH STES		1954.000	47.000
94	550	XTLIZED SS		2054.000	100.000
		* BED:LQA 10 LQA 10			
95	500	SS		2060.000	6.000
96	550	XTLIZED SS		2121.000	61.000
		* BED:LQA 20 LQA 20			
97	104	SH		2125.000	4.000
98	500	SS		2129.000	4.000
99	021	COMMON BANDED COAL		2131.000	2.000
		* BED:PCS 20 PCS 20			
100	322	DRK GRY SH+INTERBED SS		2143.000	12.000
101	500	SS		2156.000	13.000
102	550	XTLIZED SS		2160.000	4.000
103	500	SS		2167.000	7.000
104	322	DRK GRY SH+INTERBED SH		2194.000	27.000
105	104	SH		2218.000	24.000
106	021	COMMON BANDED COAL		2225.000	7.000
		* BED:PCS 20 PCS 20			
107	104	SH		2239.000	14.000
108	324	DRK GRY MASS SDY SH		2249.000	10.000
109	104	SH		2256.000	7.000
110	001	CASING OR SURFACE		2273.000	19.000

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

SERIAL NUM:7C1097686-003-00

LOG# 1 [VNSHT] 1 [VA] 1 2 1: 24000.1 10= 267

IDENTIFICATION SECTION

1. QUAD NAME: VNSHT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 267
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: V5.92
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DHR#: V5.97

COORDINATES OF HOLE OR SECTION

- 10.1 UTM ZONE (- FOR SOUTH): 18
- 10.2 UTM NORTHING:
- 10.3 UTM EASTING:
- 15.1 COMPANY GRID N/S: 19645.94
- 15.2 COMPANY GRID E/W: 16640.10

CIVIL DISTRICT WHERE LOCATED

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

WELLHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 2167.00 DRILL ANGLE 0:
22. METHOD OF ELEVATION DETERMINATION:
23. NAME OF PERSON LOGGING: SCHLUMBERGER
24. YEAR DRILLED OR MEASURED: 0
25. TOTAL DEPTH OF DRILL HOLE: F 2122.000
26. WED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE WED: KEN
28. CODE OF LOWERMOST IDENTIFIABLE WED: PCA
- 29.1 KIND OF RECORD: E
- 29.2 METHOD OF LITHO DESCRIPTION: 1[CODE]
- 30.1 UNITS OF MEASUREMENT: 2[FT] 1
- 30.2 METHOD(S) OF MEASUREMENT: 1[LITH] 1

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: PBT
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 8-22-91
- LAST MODIFIED BY: DGL
- DATE: 12/11/91
- USER DATA: 999.00' NET CORE 0= 1.8'

LOG# 1 [VMSNT] [1V8] [2 1: 24000,] TD= 267

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		90.000	90.000
2	500	SS		485.000	395.000
3	021	COMMON BANDED COAL		487.000	2.000
		* BED:KEN 10 KEN 10			
4	500	SS		554.000	67.000
5	001	CASING OR SURFACE		569.000	5.000
6	324	DRK GRY MASS SDY SH		582.000	2.000
7	104	SH		581.000	19.000
8	324	DRK GRY MASS SDY SH		584.000	3.000
9	104	SH		589.000	5.000
10	030	IMPURE COAL		590.000	1.000
		* BED:ALY 10 ALY 10			
11	324	DRK GRY MASS SDY SH		593.000	3.000
12	500	SS		624.000	31.000
13	021	COMMON BANDED COAL		626.000	2.000
		* BED:ALY 20 ALY 20			
14	324	DRK GRY MASS SDY SH		640.000	14.000
15	104	SH		661.000	21.000
16	324	DRK GRY MASS SDY SH		684.000	23.000
17	021	COMMON BANDED COAL		686.000	2.000
		* BED:RYN 20 RYN 20			
18	324	DRK GRY MASS SDY SH		692.000	6.000
19	500	SS		798.000	106.000
20	104	SH		827.000	29.000
21	021	COMMON BANDED COAL		829.000	2.000
		* BED:JAN 10 JAN 10			
22	104	SH		832.000	3.000
23	500	SS		868.000	36.000
24	104	SH		878.000	10.000
25	021	COMMON BANDED COAL		881.000	3.000
		* BED:JAN 20 JAN 20			
26	324	DRK GRY MASS SDY SH		984.000	5.000
27	500	SS		932.000	48.000
28	104	SH		940.000	8.000
29	324	DRK GRY MASS SDY SH		952.000	12.000
30	030	IMPURE COAL		953.000	1.000
		* BED:TIL 20 TIL 20			
31	324	DRK GRY MASS SDY SH		982.000	9.000
32	030	IMPURE COAL		983.000	1.000
		* BED:TIL 30 TIL 30			
33	324	DRK GRY MASS SDY SH		986.000	2.000
34	500	SS		983.000	17.000
35	324	DRK GRY MASS SDY SH		1060.000	77.000
36	104	SH		1078.000	18.000
37	021	COMMON BANDED COAL		1076.000	.000
		* BED:USB 10 USB 10			
38	500	SS		1091.000	15.000
39	324	DRK GRY MASS SDY SH		1095.000	4.000
40	030	IMPURE COAL		1096.000	1.000
		* BED:USB 20 USB 20			

LOG#(1) UNST 1 (VA) (2) 24000.1 10= 267

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
41	104	SH		1099.000	3.000
42	500	SS		1191.000	92.000
43	550	XTLIZED SS		1211.000	20.000
		* BED:MGA 10 MGA 10			
44	030	IMPURE COAL		1212.000	1.000
		* BED:BTC 10 BTC 10			
45	104	SH		1219.000	8.000
46	500	SS		1251.000	32.000
47	324	DRK GRY MASS SDY SH		1305.000	54.000
48	021	COMMON BANDED COAL		1307.000	2.000
		* BED:LSB 10 LSB 10			
49	324	DRK GRY MASS SDY SH		1316.000	9.000
50	500	SS		1328.000	12.000
51	324	DRK GRY MASS SDY SH		1343.000	15.000
52	500	SS		1377.000	34.000
53	324	DRK GRY MASS SDY SH		1401.000	24.000
54	500	SS		1416.000	15.000
55	324	DRK GRY MASS SDY SH		1430.000	14.000
56	021	COMMON BANDED COAL		1433.000	3.000
		* BED:UNP 10 UNP 10			
57	324	DRK GRY MASS SDY SH		1445.000	12.000
58	500	SS		1454.000	9.000
59	104	SH		1459.000	4.000
60	021	COMMON BANDED COAL		1460.000	2.000
		* BED:UNP 20 UNP 20			
61	324	DRK GRY MASS SDY SH		1509.000	49.000
62	500	SS		1520.000	11.000
63	324	DRK GRY MASS SDY SH		1590.000	70.000
		* BED:RLS 10 RLS 10			
64	500	SS		1673.000	83.000
65	104	SH		1679.000	6.000
66	021	COMMON BANDED COAL		1682.000	3.000
		* BED:LHF 20 LHF 20			
67	324	DRK GRY MASS SDY SH		1743.000	61.000
68	021	COMMON BANDED COAL		1747.000	4.000
		* BED:PC9 10 PC9 10			
69	324	DRK GRY MASS SDY SH		1761.000	14.000
70	104	SH		1790.000	29.000
71	324	DRK GRY MASS SDY SH		1831.000	41.000
72	500	SS		1850.000	19.000
73	324	DRK GRY MASS SDY SH		1867.000	17.000
74	550	XTLIZED SS		1856.000	89.000
		* BED:LQA 10 LQA 10			
75	550	XTLIZED SS		2045.000	89.000
		* BED:LQA 20 LQA 20			
76	324	DRK GRY MASS SDY SH		2047.000	2.000
77	021	COMMON BANDED COAL		2054.000	7.000
		* BED:PCS 20 PCS 20			
78	324	DRK GRY MASS SDY SH		2004.000	20.000
79	500	SS		2025.000	12.000

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

SERIAL NUM: ICI092686-003-3,00

LOG: () (VNSNT) (VA) 1 2 1: 24000,1 10= 267

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
80	324	DRY DRY MASS SOY SH		2115.000	13.000
81	023	COMMON Banded COAL		2119.000	4.000
		1 BED 1 PC4 10 PC4 10			
82	001	CASING OR SURFACE		2122.000	3.000

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

SERIAL NUM:121092686-003-3,00

LOG# 1 1 (VNSHT) 1 (VA) (2 1: 34000.) ID# 272

IDENTIFICATION SECTION

1. QUAD NAME: VNSHT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 272
5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: V5.V5
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DR# #: V5.V5

COORDINATES OF HOLE OR SECTION

12.1 STATE CODE: VAS
12.2 STATE PLANE N/S: 3609209.14
12.3 STATE PLANE E/W: 10435419.05
15.1 COMPANY GRID N/S: 21381.56
15.2 COMPANY GRID E/W: 16466.54

CIVIL DISTRICT WHERE LOCATED

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

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F .LOG DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION:
23. NAME OF PERSON LOGGING: SCHLUMBERGER
24. YEAR DRILLED OR MEASURED: 0
25. TOTAL DEPTH OF DRILL HOLE: F 1571.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: KEN
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) 1
30.2 METHOD(S) OF MEASUREMENT: 1(TNK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: PBT
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 8-22-91
LAST MODIFIED BY: DGL
DATE: 9/3/1992
USER DATA: 18.50' NET COAL >= 1.5"

LOG#(7) VMSHT 7 (VA) 2 1: 24000.1 18* 272

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING OR SURFACE		16.000	16.000
2	500	SS		55.000	39.000
3	104	SH		90.000	35.000
4	500	SS		124.000	34.000
5	104	SH		130.000	6.000
6	021	COMMON BANDED COAL		132.000	2.000
7	104	SH		148.000	16.000
8	030	IMPURE COAL		149.000	1.000
9	104	SH		154.000	5.000
10	021	COMMON BANDED COAL		156.000	2.000
11	104	SH		159.000	3.000
12	030	IMPURE COAL		162.000	3.000
13	021	COMMON BANDED COAL		163.000	1.000
14	104	SH		201.000	38.000
15	500	SS		243.000	42.000
16	104	SH		281.000	38.000
17	324	DRK GRY MASS SDY SH		292.000	11.000
18	104	SH		299.000	7.000
19	324	DRK GRY MASS SDY SH		304.000	5.000
20	104	SH		318.000	14.000
21	324	DRK GRY MASS SDY SH		326.000	8.000
22	104	SH		399.000	73.000
23	323	DRK GRY SH M/SS STKS		420.000	21.000
24	104	SH		488.000	68.000
25	500	SS		476.000	8.000
26	104	SH		492.000	16.000
27	021	COMMON BANDED COAL		494.000	2.000
* BED:KEN 10 KEN 10					
28	104	SH		499.000	5.000
29	500	SS		555.000	56.000
30	324	DRK GRY MASS SDY SH		576.000	21.000
31	104	SH		600.000	24.000
32	324	DRK GRY MASS SDY SH		613.000	13.000
33	500	SS		632.000	19.000
34	104	SH		634.000	2.000
35	021	COMMON BANDED COAL		636.000	2.000
* BED:ALY 20 ALY 20					
36	104	SH		682.000	46.000
37	500	SS		699.000	17.000
38	030	IMPURE COAL		701.000	2.000
* BED:RYN 20 RYN 20					
39	324	DRK GRY MASS SDY SH		708.000	7.000
40	500	SS		788.000	80.000
41	104	SH		837.000	49.000
42	021	COMMON BANDED COAL		839.000	2.000
* BED:JAW 10 JAW 10					
43	104	SH		848.000	9.000
44	500	SS		869.000	21.000
45	104	SH		875.000	6.000
46	021	COMMON BANDED COAL		877.000	2.000
* BED:JAW 20 JAW 20					

LOG#1 3 DVNSHT 7 (VAL) 12 1: 24000.J 10= 272

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
47	104	SH		883.000	6.000
48	500	SS		932.000	49.000
49	104	SH		953.000	21.000
50	030	IMPURE COAL		955.000	2.000
* BED:TIL 20 TIL 20					
51	104	SH		965.000	10.000
52	030	IMPURE COAL		967.000	2.000
* BED:TIL 30 TIL 30					
53	104	SH		973.000	6.000
54	324	DRK GRY MASS SDY SH		1004.000	31.000
55	104	SH		1046.000	62.000
56	021	COMMON BANDED COAL		1064.000	.000
* BED:USB 10 USB 10					
57	500	SS		1092.000	26.000
58	104	SH		1095.000	3.000
59	030	IMPURE COAL		1097.000	2.000
* BED:USB 20 USB 20					
60	104	SH		1105.000	8.000
61	500	SS		1162.000	57.000
62	550	XTLIZED SS		1209.000	47.000
* BED:HQA 10 HQA 10					
63	021	COMMON BANDED COAL		1211.000	2.000
* BED:GYC 10 GYC 10					
64	500	SS		1243.000	32.000
65	104	SH		1269.000	26.000
66	324	DRK GRY MASS SDY SH		1283.000	14.000
67	104	SH		1293.000	10.000
68	324	DRK GRY MASS SDY SH		1310.000	17.000
69	104	SH		1317.000	7.000
70	500	SS		1340.000	23.000
71	104	SH		1344.000	4.000
72	500	SS		1374.000	30.000
73	324	DRK GRY MASS SDY SH		1382.000	8.000
74	500	SS		1399.000	17.000
75	104	SH		1417.000	18.000
76	030	IMPURE COAL		1419.000	2.000
* BED:UNP 10 UNP 10					
77	324	DRK GRY MASS SDY SH		1424.000	5.000
78	500	SS		1440.000	16.000
79	104	SH		1445.000	5.000
80	021	COMMON BANDED COAL		1447.000	2.000
* BED:UNP 20 UNP 20					
81	104	SH		1449.000	2.000
82	500	SS		1455.000	6.000
83	324	DRK GRY MASS SDY SH		1483.000	28.000
84	021	COMMON BANDED COAL		1485.000	2.000
* BED:WNP 10 WNP 10					
85	324	DRK GRY MASS SDY SH		1508.000	23.000
86	500	SS		1543.000	35.000
87	104	SH		1579.000	36.000
* BED:ALS 10 ALS 10					

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

SERIAL NUM:IC1092666-003-3,00

COO=1 J DVMNT J (VAT) (Z 1: 24000.1) 10= 272

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
88	500	SS			
89	104	SH		1633.000	54.000
90	500	SS		1639.000	6.000
91	021	COMMON Banded COAL		1669.000	30.000
		* BED:LHP 20 LHP 20		1671.000	2.000
92	500	SS			
93	104	SH		1715.000	44.000
94	021	COMMON Banded COAL		1739.000	24.000
		* BED:PCS 10 PCS 10		1742.000	3.000
95	104	SH			
96	500	SS		1753.000	11.000
97	104	SH		1768.000	15.000
98	021	COMMON Banded COAL		1771.000	3.000
		* BED:PCS 20 PCS 20		1773.000	2.000
99	323	DRK GRY SH W/SS BYES			
100	500	SS		1800.000	27.000
101	324	DRK GRY MASS SDY SH		1814.000	14.000
102	500	SS		1834.000	20.000
103	324	DRK GRY MASS SDY SH		1847.000	13.000
104	530	XTLIZED SH		1867.000	20.000
		* BED:LGA 10 LGA 10		1942.000	75.000
105	530	XTLIZED SS			
		* BED:LGA 20		1987.000	45.000
106	324	DRK GRY MASS SDY SH			
107	530	XTLIZED SS		1996.000	9.000
		* BED:LGA 20		2018.000	22.000
108	021	COMMON Banded COAL			
		* BED:PCS 10 PCS 10		2019.000	1.000
109	104	SH			
110	021	COMMON Banded COAL		2026.000	7.000
		* BED:PCS 20 PCS 20		2029.000	3.000
111	104	SH			
112	500	SS		2041.000	12.000
113	324	DRK GRY MASS SDY SH		2117.000	76.000
114	500	SS		2130.000	13.000
115	324	DRK GRY MASS SDY SH		2141.000	11.000
116	021	COMMON Banded COAL		2153.000	12.000
		* BED:PCS 10 PCS 30		2159.000	6.000
117	001	CAVING OR SURFACE		2181.000	22.000

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

SERIAL NUMBER: IC1092686-003-3.00

LOG# 7 (VARIANT) 1 (VAL) 2 1: 24000.1 (D) 66

IDENTIFICATION SECTION

1. OUND NAME: VHSNT
2. STATE LOCATION OF OUND: VA
3. SCALE OF OUND: 2
4. LOG ID #: 66
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-199
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY CODE: L-199

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3610661.90
- 12.3 STATE PLANE E/W: 10444171.81
- 15.1 COMPANY GRID N/S: 22998.02
- 15.2 COMPANY GRID E/W: 25175.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: BUCHANAN
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE:
20. GROUND LOCATION DESCRIPTION: THREE FORK BR.

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1680.00 DRILL ANGLE: 0.
22. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: KEEN
24. YEAR DRILLED OR MEASURED: 1971
25. TOTAL DEPTH OF DRILL HOLE: F 1545.600
26. BED CODE REGION IDENTIFIER: WAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: ALY
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THR)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 3/2/87
- LAST MODIFIED BY: DGL
- DATE: 9/28/1992
- USER DATA: 30.06' NET COAL >=1.5'

LOG#(1) (VNSMT I (VA) L 2 1: 24900.1 ID# 66

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING ON SURFACE		42.000	42.000
2	124	DRK GRY SH		47.000	5.000
3	021	COMMON BANDED COAL		48.000	1.000
* BED:ALY 20 ALY 20					
4	124	DRK GRY SH		54.167	8.167
5	544	GRY MASS SS		64.500	10.333
6	124	DRK GRY SH		84.667	20.167
7	544	GRY MASS SS		85.167	.500
8	323	DRK GRY SH W/SS STKS		105.584	20.417
9	544	GRY MASS SS		106.334	.750
10	124	DRK GRY SH		110.334	4.000
11	021	COMMON BANDED COAL		112.334	2.000
* BED:BYN 20 BYN 20					
12	124	DRK GRY SH		113.667	1.333
13	544	GRY MASS SS		135.667	22.000
14	749	GRY SS W/COAL SPARS		160.500	24.833
15	124	DRK GRY SH		181.500	1.000
16	324	DRK GRY MASS SDY SH		183.250	1.750
17	749	GRY SS W/COAL SPARS		203.583	20.333
18	544	GRY MASS SS		204.750	1.167
19	324	DRK GRY MASS SDY SH		226.000	21.250
20	323	DRK GRY SH W/SS STKS		250.667	24.667
21	544	GRY MASS SS		252.417	1.750
22	124	DRK GRY SH		253.334	.917
23	021	COMMON BANDED COAL		254.084	.750
* BED:JAW 10 JAW 10					
24	124	DRK GRY SH		259.251	5.167
25	544	GRY MASS SS		291.334	32.083
26	543	GRY SS W/SH STKS		299.001	7.667
27	021	COMMON BANDED COAL		300.501	1.500
* BED:JAW 20 JAW 20					
28	124	DRK GRY SH		303.418	2.917
29	544	GRY MASS SS		323.335	21.917
30	124	DRK GRY SH		325.585	.250
31	540	GRY SS	COAL STRKS	350.168	24.583
32	540	GRY SS	COAL STRKS	391.001	40.833
33	021	COMMON BANDED COAL		391.584	.583
* BED:TIL 10 TIL 10					
34	544	GRY MASS SS		392.667	1.083
35	021	COMMON BANDED COAL		393.667	1.000
* BED:TIL 20 TIL 20					
36	124	DRK GRY SH		395.250	1.583
37	021	COMMON BANDED COAL		396.500	1.250
* BED:TIL 30 TIL 30					
38	124	DRK GRY SH		397.500	1.000
39	543	GRY SS W/SH STKS		399.250	1.750
40	323	DRK GRY SH W/SS STKS		484.167	84.917
41	124	DRK GRY SH		486.000	1.833
42	021	COMMON BANDED COAL		486.583	.583
* BED:USB 10 USB 10					

LOG# 1 (WNSHT) 1 (VAL) 1 2 1: 24000.1 10+ 84

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	124	DRK GRY SH			
44	543	GRY SS		492.166	5.583
45	124	DRK GRY SH	COAL STRKS	541.249	49.083
46	543	GRY SS W/SH STKS		545.082	3.833
47	124	DRK GRY SH		580.082	15.000
48	018	SDY SH MUDFLOW		632.749	72.667
49	021	COMMON BANDED COAL		638.999	6.250
		* BED:GYC 10 GYC 10		639.166	.167
50	124	DRK GRY SH			
51	324	DRK GRY MASS SDY SH		640.166	1.000
52	544	GRY MASS SS		645.166	5.000
53	544	GRY MASS SS		664.166	19.000
54	124	DRK GRY SH		674.749	10.583
55	543	GRY SS W/SH STKS		687.749	13.000
56	324	DRK GRY MASS SDY SH		720.582	32.833
57	124	DRK GRY SH		733.165	12.583
58	021	COMMON BANDED COAL		735.082	1.917
		* BED:MSB 20 MSB 20		735.999	.917
59	124	DRK GRY SH			
60	124	DRK GRY SH		737.332	1.333
61	543	GRY SS W/SH STKS		740.165	2.833
62	124	DRK GRY SH		751.698	11.533
63	021	COMMON BANDED COAL		764.531	12.833
		* BED:LSB 10 LSB 10		764.581	.250
64	124	DRK GRY SH			
65	021	COMMON BANDED COAL		770.698	5.917
		* BED:LSB 20 LSB 20		771.248	.750
66	124	DRK GRY SH			
67	543	GRY SS W/SH STKS		773.748	2.500
68	323	DRK GRY SH W/SS STKS		837.581	63.833
69	124	DRK GRY SH		862.414	24.833
70	021	COMMON BANDED COAL		881.797	19.583
		* BED:UNP 10 UNP 10		883.767	1.750
71	124	DRK GRY SH			
72	544	GRY MASS SS		884.247	.500
73	021	COMMON BANDED COAL		888.164	3.917
		* BED:UNP 20 UNP 20		890.081	1.917
74	124	DRK GRY SH			
75	543	GRY SS W/SH STKS		891.998	1.917
76	323	DRK GRY SH W/SS STKS		909.331	17.333
77	124	DRK GRY SH		929.748	16.417
78	021	COMMON BANDED COAL		926.331	.583
		* BED:UNP 10 UNP 10		927.748	1.417
79	124	DRK GRY SH			
80	543	GRY SS W/SH STKS		933.665	5.917
81	124	DRK GRY SH		955.332	21.667
82	124	DRK GRY SH		1005.749	50.417
83	021	COMMON BANDED COAL		1018.666	12.917
		* BED:WRC 10 WRC 10		1022.333	3.667
84	124	DRK GRY SH			
				1024.333	2.000

LOG#(1) EVENT 7 (VA) (2) 24000.1 ID# 66

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
85	124	DRK GRY SH			
86	124	DRK GRY SH		1031.000	6.667
87	021	COMMON BANDED COAL		1035.083	4.083
		* BED:MRC 20		1039.416	.533
88	124	DRK GRY SH			
89	021	COMMON BANDED COAL		1036.083	.667
		* BED:MRC 20		1037.000	.917
90	544	GRY MASS SS			
91	124	DRK GRY SH	COAL STRKS	1076.167	39.167
92	021	COMMON BANDED COAL		1076.750	.583
		* BED:LMP 10 LMP 10		1077.667	.917
93	124	DRK GRY SH			
94	124	DRK GRY SH		1081.250	3.583
95	540	GRY SS		1082.583	1.333
96	124	DRK GRY SH	COAL STRKS	1097.000	14.417
97	021	COMMON BANDED COAL		1098.583	1.583
		* BED:LMP 20		1099.500	.917
98	540	GRY SS			
99	021	COMMON BANDED COAL	COAL STRKS	1099.750	.250
		* BED:LMP 20		1100.417	.667
100	124	DRK GRY SH			
101	553	XTLIZED SS W/SH STRS		1103.417	3.000
102	540	GRY SS		1153.084	49.667
103	124	DRK GRY SH	COAL STRKS	1169.001	15.917
104	021	COMMON BANDED COAL		1174.084	5.083
		* BED:PC9 10 PC9 10		1175.417	1.333
105	124	DRK GRY SH			
106	021	COMMON BANDED COAL		1176.417	1.000
		* BED:PC9 20 PC9 20		1178.250	1.833
107	124	DRK GRY SH			
108	323	DRK GRY SH W/SS STRS		1181.500	3.250
109	124	DRK GRY SH		1224.583	43.083
110	021	COMMON BANDED COAL		1225.750	1.167
		* BED:PC9 10		1226.667	.917
111	124	DRK GRY SH			
112	021	COMMON BANDED COAL		1227.300	.833
		* BED:PC9 10		1228.083	.583
113	124	DRK GRY SH			
114	323	DRK GRY SH W/SS STRS		1230.416	2.333
115	563	HARD SS W/SH STRS		1266.499	36.083
		* BED:LQA 0		1284.499	18.000
116	543	GRY SS W/SH STRS			
117	323	DRK GRY SH W/SS STRS		1298.166	13.667
118	554	XTLIZED MASS SS		1312.249	14.083
119	754	XTLIZED QTZ PER CGL		1377.499	65.250
		* BED:LQA 0		1402.166	24.667
120	124	DRK GRY SH			
121	021	COMMON BANDED COAL		1406.166	4.000
		* BED:PC5 5 PC5 5		1407.499	1.333
122	124	DRK GRY SH			
				1410.832	3.333

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

SERIAL NUM: 1C1092686-003-3.00

LOG#1 1 CYCLES 1 DIA 1 2 1= 24000.1 10= 56

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
123	324	DRK GRY MASS SDY SH		1423.999	13.167
124	543	GRY SS W/SH STKS		1435.999	12.000
125	124	DRK GRY SH		1448.832	9.833
126	021	COMMON BANDED COAL		1467.165	1.333
		* BED:PCS 10			
127	034	BONE		1467.207	.042
		* BED:PCS 10			
128	123	DRK GRY SH W/COAL STKS		1448.249	1.042
129	124	DRK GRY SH		1453.666	5.417
130	029	COAL W/PYRITE STKS		1453.874	.208
		* BED:PCS 20			
131	114	BLK SH		1454.332	.458
132	021	COMMON BANDED COAL		1454.499	.167
133	123	DRK GRY SH W/COAL STKS		1454.749	.250
134	021	COMMON BANDED COAL		1457.769	3.000
		* BED:PCS 20			
135	123	DRK GRY SH W/COAL STKS		1457.999	.250
136	544	GRY MASS SS		1495.476	37.417
137	021	COMMON BANDED COAL		1501.541	6.125
		* BED:PCS 10 PCS 10			
138	749	GRY SS W/COAL SPARS		1531.666	30.125
139	124	DRK GRY SH	91.0	1533.958	2.292
140	021	COMMON BANDED COAL		1534.771	.813
		* BED:PCS 10			
141	023	COAL W/BONE STKS		1535.334	.563
		* BED:PCS 10			
142	100	SH (UNDIF)		1535.353	.021
143	021	COMMON BANDED COAL		1535.563	.208
		* BED:PCS 20			
144	100	SH (UNDIF)		1535.384	.021
145	021	COMMON BANDED COAL		1539.626	4.042
		* BED:PCS 20			
146	033	BONE W/COAL STKS		1539.793	.167
147	100	SH (UNDIF)		1539.981	.188
148	033	BONE W/COAL STKS		1540.210	.229
		* BED:PCS 30 PCS 30			
149	113	BLK SH W/COAL STKS		1540.710	.500
150	124	DRK GRY SH		1545.523	4.813

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

SERIAL NUM:IC1092686-003-3.00

LOG# 1) CORENT 1 (VA) 1 2 1: 24000.1 10# 8

IDENTIFICATION SECTION

1. QUAD NAME: VISBY
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 8
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: ISLAND CREEK COAL COMPANY
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-201
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
9. CONTRIBUTING COMPANY DOWH: L-201

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VA8
- 12.2 STATE PLANE N/B: 3609502.54
- 12.3 STATE PLANE E/W: 10637585.69
- 13.1 COMPANY GRID N/B: 21655.30
- 13.2 COMPANY GRID E/W: 78625.88

CIVIL DISTRICT WHERE LOCATED

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

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1640.00 DRILL ANGLE 0-
22. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: MOTT
24. YEAR DRILLED OR MEASURED: 1977
25. TOTAL DEPTH OF DRILL HOLE: F 7646.100
26. AEO CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: ALY
28. CODE OF LOWERMOST IDENTIFIABLE BED: PC1
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF 1
- 30.2 METHOD(S) OF MEASUREMENT: 1(LTHV 1

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: RWF
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 10
- LAST MODIFIED BY: DGL
- DATE: 9/3/1992
- USER DATA: 14.65' NET COAL >= 7.5'

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

SERIAL NUMBER: 101092686-003-3.00

LOG# 1 TVSHT 1 TVAI (2 1: 24000.1)/p= 8

LINE	CODE	ENGLISH	COMMENT#	CUMULATIVE	UNIT
1	001	CASING OR SURFACE			
2	544	GRY MASS SS		12.000	12.000
3	124	DRK GRY SH		42.167	30.167
4	021	COMMON BANDED COAL		48.250	6.083
		* BED:ALY 20 ALY 20		48.458	.208
5	124	DRK GRY SH			
6	324	DRK GRY MASS SDY SH		52.625	4.167
7	544	GRY MASS SS		54.792	2.167
8	124	DRK GRY SH		55.792	1.000
9	544	GRY MASS SS		56.167	.375
10	324	DRK GRY SH W/SS STVS		56.667	.500
11	124	DRK GRY SH		59.334	2.667
12	021	COMMON BANDED COAL		86.584	27.250
		* BED:RVN 10 RVN 10		86.834	-.250
13	124	DRK GRY SH			
14	324	DRK GRY MASS SDY SH		87.384	.750
15	124	DRK GRY SH		101.001	13.417
16	021	COMMON BANDED COAL		113.751	12.750
		* BED:RVN 20 RVN 20		114.751	1.000
17	124	DRK GRY SH			
18	544	GRY MASS SS		117.001	2.250
19	124	DRK GRY SH		202.334	85.333
20	021	COMMON BANDED COAL		246.667	44.333
		* BED:JAW 10 JAW 10		247.500	.833
21	124	DRK GRY SH			
22	544	GRY MASS SS		254.083	6.583
23	124	DRK GRY SH		288.166	34.083
24	021	COMMON BANDED COAL		306.249	18.083
		* BED:JAW 20 JAW 20		307.999	1.750
25	124	DRK GRY SH			
26	544	GRY MASS SS		312.416	4.417
27	021	COMMON BANDED COAL		325.833	13.417
28	544	GRY MASS SS		329.916	.083
29	749	GRY SS W/COAL SPARS		338.833	12.917
30	124	DRK GRY SH		340.833	2.000
31	021	COMMON BANDED COAL		365.083	24.250
		* BED:TIL 20 TIL 20		366.000	-.917
32	124	DRK GRY SH			
33	021	COMMON BANDED COAL		374.750	8.750
		* BED:TIL 30 TIL 30		375.667	.917
34	124	DRK GRY SH			
35	324	DRK GRY MASS SDY SH		376.334	.667
36	544	GRY MASS SS		385.001	8.667
37	324	DRK GRY MASS SDY SH		386.001	1.000
38	544	GRY MASS SS		389.001	3.000
39	324	DRK GRY MASS SDY SH		399.334	10.333
40	124	DRK GRY SH		405.417	6.083
41	021	COMMON BANDED COAL		465.750	60.333
		* BED:USB 10 USB 10		468.917	-.167
42	124	DRK GRY SH			
				472.667	6.750

PAGE: 3 OWNER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

SERIAL NUM:101092686-003-3.00

LOG#1 J (WBM) J (VA) 1 2 1: 24000.1 TO+ 6

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	324	DRK GRY MASS SDY SH		476.417	3.750
44	544	GRY MASS SS		498.667	22.250
45	749	GRY SS W/COAL SPARS		500.667	2.000
46	021	COMMON BANDED COAL		501.334	.667
		* BED:USB 20 USB 20			
47	544	GRY MASS SS		520.001	18.667
48	749	GRY SS W/COAL SPARS		534.418	14.417
49	544	GRY MASS SS	YES	534.501	.083
50	544	GRY MASS SS		554.501	20.000
51	544	HARD MASS SS		615.081	60.500
		* BED:MGA 0 MGA 0			
52	021	COMMON BANDED COAL		615.834	.833
		* BED:SYC 10 SYC 10			
53	124	DRK GRY SH		617.834	2.000
54	544	GRY MASS SS		651.584	33.750
55	124	DRK GRY SH		670.001	18.417
56	124	DRK GRY SH		704.834	34.833
57	021	COMMON BANDED COAL		705.167	.333
		* BED:MGB 20 MGB 20			
58	124	DRK GRY SH		709.167	4.000
59	544	GRY MASS SS		711.750	2.583
60	124	DRK GRY SH		731.583	19.833
61	544	GRY MASS SS		739.166	7.583
62	124	DRK GRY SH		739.999	.833
63	543	GRY SS W/SH STKS		759.499	19.500
64	544	GRY MASS SS		777.499	18.000
65	749	GRY SS W/COAL SPARS		778.666	1.167
66	124	DRK GRY SH		781.166	2.500
67	749	GRY SS W/COAL SPARS		797.499	16.333
68	544	GRY MASS SS		803.499	6.000
69	543	GRY SS W/SH STKS		816.999	13.500
70	323	DRK GRY SH W/SS STKS		835.166	18.167
71	021	COMMON BANDED COAL		835.499	.333
		* BED:UNP 10 UNP 10			
72	124	DRK GRY SH		838.499	3.000
73	544	GRY MASS SS		861.666	23.167
74	124	DRK GRY SH		863.999	2.333
75	021	COMMON BANDED COAL		864.499	.500
		* BED:UNP 20 UNP 20			
76	124	DRK GRY SH		865.999	1.500
77	324	DRK GRY MASS SDY SH		869.249	3.250
78	543	GRY SS W/SH STKS		902.999	33.750
79	124	DRK GRY SH		903.416	.417
80	021	COMMON BANDED COAL		904.333	.917
		* BED:MHP 10 MHP 10			
81	124	DRK GRY SH		909.500	5.167
82	323	DRK GRY SH W/SS STKS		912.333	2.833
83	543	GRY SS W/SH STKS		918.500	6.167
84	544	GRY MASS SS		937.000	18.500
85	543	GRY SS W/SH STKS		941.000	4.000

LOG# [1] (INVENT [1] (VAL [2] [24000.] ID# [4]

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
85	124	DRK GRY SH		996.083	55.083
87	021	COMMON BANDED COAL		997.083	1.000
		* BED:MRC 10			
88	124	DRK GRY SH		998.000	.917
89	021	COMMON BANDED COAL		998.583	.583
90	124	DRK GRY SH		999.166	.583
91	021	COMMON BANDED COAL		999.749	.583
		* BED:MRC 10			
92	124	DRK GRY SH		1001.999	2.250
93	544	GRY MASS SS		1009.582	7.583
94	124	DRK GRY SH		1010.082	.500
95	021	COMMON BANDED COAL		1010.249	.167
		* BED:MRC 20 MRC 20			
96	124	DRK GRY SH		1012.666	2.417
97	324	DRK GRY MASS SDY SH		1015.166	2.500
98	544	GRY MASS SS		1047.999	32.833
99	124	DRK GRY SH		1051.999	4.000
100	543	GRY SS W/SH STKS		1057.749	5.750
101	324	DRK GRY MASS SDY SH		1069.249	11.500
102	124	DRK GRY SH		1071.249	2.000
103	021	COMMON BANDED COAL		1072.582	1.333
		* BED:LMP 20 LMP 20			
104	124	DRK GRY SH		1074.915	2.333
105	324	DRK GRY MASS SDY SH		1118.498	43.583
106	124	DRK GRY SH		1134.998	16.500
107	021	COMMON BANDED COAL		1137.498	2.500
		* BED:PC9 10 PC9 10			
108	114	BLK SH		1148.248	10.750
109	324	DRK GRY MASS SDY SH		1161.248	13.000
110	124	DRK GRY SH		1166.498	5.250
111	021	COMMON BANDED COAL		1167.165	.667
		* BED:PC9 20 PC9 20			
112	124	DRK GRY SH		1168.582	1.417
113	324	DRK GRY MASS SDY SH		1192.582	24.000
114	323	DRK GRY SH W/SS STKS		1217.249	24.667
115	324	DRK GRY MASS SDY SH		1253.582	16.333
116	563	HARD SS W/SH STKS		1241.165	7.583
117	324	DRK GRY MASS SDY SH		1249.332	8.167
118	114	BLK SH		1250.749	1.417
119	124	DRK GRY SH		1259.332	8.583
120	563	HARD SS W/SH STKS		1262.082	2.750
121	544	GRY MASS SS		1270.415	8.333
122	554	ETLIZED MASS SS		1432.332	161.917
		* BED:LQA 0 LQA 0			
123	124	DRK GRY SH		1434.082	1.750
124	021	COMMON BANDED COAL		1434.852	.750
		* BED:PCS 10 PCS 10			
125	124	DRK GRY SH		1435.249	.417
126	324	DRK GRY MASS SDY SH		1444.999	9.750
127	124	DRK GRY SH		1445.999	1.000

LOG#1 1 DWSNT 1 DIA1 1 2 1: 24000.1 10= 71

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
43	323	DRK GRY SH W/SS STKS		478.166	12.417
44	543	GRY SS W/SH STKS		480.833	2.667
45	324	DRK GRY MASS SDY SH		505.416	24.583
46	324	DRK GRY MASS SDY SH		507.416	2.000
47	124	DRK GRY SH		508.416	1.000
48	324	DRK GRY MASS SDY SH		526.416	18.000
49	124	DRK GRY SH		523.916	7.500
50	023	COAL W/SOME STKS		534.083	.167
* BED:MSB 20					
51	124	DRK GRY SH		534.583	.500
52	021	COMMON BANDED COAL		534.916	.333
* BED:MSB 20					
53	124	DRK GRY SH		540.916	6.000
54	324	DRK GRY MASS SDY SH		550.416	9.500
55	124	DRK GRY SH		550.916	.500
56	324	DRK GRY MASS SDY SH		558.916	8.000
57	544	GRY MASS SS		575.166	16.250
58	544	GRY MASS SS		586.166	11.000
59	324	DRK GRY MASS SDY SH		599.833	13.667
60	324	DRK GRY MASS SDY SH		623.416	23.583
61	021	COMMON BANDED COAL		624.249	.833
* BED:UNP 10 UNP 10					
62	124	DRK GRY SH		627.749	3.500
63	544	GRY MASS SS		647.166	19.417
64	544	GRY MASS SS		656.166	9.000
65	124	DRK GRY SH		656.333	.167
66	021	COMMON BANDED COAL		656.750	.417
* BED:UNP 20 UNP 20					
67	324	DRK GRY MASS SDY SH		670.833	14.083
68	324	DRK GRY MASS SDY SH		679.833	9.000
69	124	DRK GRY SH		687.416	7.583
70	021	COMMON BANDED COAL		687.666	.250
* BED:UNP 10 UNP 10					
71	324	DRK GRY MASS SDY SH		697.666	10.000
72	324	DRK GRY MASS SDY SH		711.833	14.167
73	544	GRY MASS SS		722.583	10.750
74	544	GRY MASS SS		736.666	14.083
75	124	DRK GRY SH		745.916	9.250
76	124	DRK GRY SH		752.666	6.750
77	124	DRK GRY SH		773.749	21.083
78	554	XTLIZED MASS SS		776.832	3.083
79	553	XTLIZED SS W/SH STKS		785.832	9.000
80	544	GRY MASS SS		794.832	9.000
81	324	DRK GRY MASS SDY SH		801.915	7.083
82	324	DRK GRY MASS SDY SH		814.415	12.500
83	124	DRK GRY SH		814.748	.333
84	021	COMMON BANDED COAL		814.913	.167
* BED:MRC 20 MRC 20					
85	124	DRK GRY SH		815.832	.917
86	544	GRY MASS SS		848.165	32.333

7

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

SERIAL NUM:IC1092686-003-3,00

LOG#1 1 DVNSHT 1 DIA 2.2 24000 J 10 71

IDENTIFICATION SECTION

1. QUAD NAME: VRSMT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 71
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-206
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY DDH#: L-206

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3613713.79
- 12.3 STATE PLANE E/W: 10637927.33
- 15.1 COMPANY GRID N/S: 25875.00
- 15.2 COMPANY GRID E/W: 18850.00

CIVIL DISTRICT WHERE LOCATED

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

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1395.00 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: BAILEY
24. YEAR DRILLED OR MEASURED: 1977
25. TOTAL DEPTH OF DRILL HOLE: F 1341.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JAW
28. CODE OF LOWERMOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
- 30.1 UNITS OF MEASUREMENT: 1(FIF)
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 3/2/87
- LAST MODIFIED BY: DGL

DATE: 9/3/1992

USER DATA: 17.21' NET COAL >= 1.5'

LOG#E 1 TWENTY 1 EVAL C 2 1: 24000.1 10# 6

LINE	CODE	ENCL 19H	COMMENTS	CUMULATIVE	UNIT
128	021		COMMON BANDED COAL	1446.249	.250
			* BED:PCS 20		
129	114		BLK SH	1446.499	.250
130	021		COMMON BANDED COAL	1447.499	1.000
			* BED:PCS 20		
131	124		DRK GRY SH	1458.249	10.750
132	544		GRY MASS SS	1498.916	35.667
133	021		COMMON BANDED COAL	1498.833	4.917
			* BED:PC4 20 PC4 20		
134	544		GRY MASS SS	1512.250	13.417
135	124		DRK GRY SH	1519.250	7.000
136	324		DRK GRY MASS SDY SH	1541.300	22.250
137	114		BLK SH	1541.667	.167
138	023		COAL W/BONE STKS	1542.813	1.146
			* BED:PCS 10 PCS 10		
139	124		DRK GRY SH	1543.084	.271
140	023		COAL W/BONE STKS	1544.584	1.500
			* BED:PCS 20		
141	124		DRK GRY SH	1544.647	.063
142	029		COAL W/PYRITE STKS	1546.668	2.021
143	034		BONE	1546.793	.125
144	023		COAL W/BONE STKS	1547.189	.396
			* BED:PCS 20		
145	021		COMMON BANDED COAL	1547.189	.000
			* BED:PCS 30 PCS 30		
146	113		BLK SH W/COAL STKS	1547.814	.625
147	124		DRK GRY SH	1557.564	9.750
148	324		DRK GRY MASS SDY SH	1568.147	10.383
149	124		DRK GRY SH	1582.814	14.667
150	021		COMMON BANDED COAL	1583.147	.333
			* BED:PC2 10 PC2 10		
151	124		DRK GRY SH	1585.147	2.000
152	324		DRK GRY MASS SDY SH	1616.314	31.167
153	124		DRK GRY SH	1618.064	1.750
154	021		COMMON BANDED COAL	1619.647	1.583
			* BED:PC1 10 PC1 10		
155	124		DRK GRY SH	1620.647	1.000
156	324		DRK GRY MASS SDY SH	1646.064	25.417

LOG# 1 J DWG# 1 LVAL 1 2 1: 24000.1 104 71

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
87	554	XTLIZED MASS SS			
88	324	DRK GRX MASS SDY SH		848.665	.500
89	021	COMMON BANNED COAL		849.498	.833
		* BED:LVR 10 LHP 10		850.998	1.500
90	124	DRK GRX SH			
91	021	COMMON BANNED COAL		857.748	6.750
		* BED:LHP 20 LHP 20		859.415	1.667
92	124	DRK GRX SH			
93	324	DRK GRX MASS SDY SH		860.082	.667
94	554	XTLIZED MASS SS		883.832	23.750
95	324	DRK GRX MASS SDY SH		888.832	5.000
96	124	DRK GRX SH		897.499	8.667
97	021	COMMON BANNED COAL		920.769	23.250
		* BED:PCR 10		921.999	1.250
98	023	COAL W/SOME STKS			
		* BED:PCR 10		922.332	.333
99	124	DRK GRX SH			
100	324	DRK GRX MASS SDY SH		937.332	15.000
101	124	DRK GRX SH		944.415	7.083
102	023	COAL W/SOME STKS		955.415	11.000
		* BED:PCR 20		956.165	.750
103	124	DRK GRX SH			
104	021	COMMON BANNED COAL		956.498	.333
		* BED:PCR 20		957.248	.750
105	124	DRK GRX SH			
106	324	DRK GRX MASS SDY SH		957.748	.500
107	324	DRK GRX MASS SDY SH		966.748	9.000
108	553	XTLIZED SS W/SH STKS		991.331	24.583
109	124	DRK GRX SH		997.414	6.083
110	554	XTLIZED MASS SS		1014.831	17.417
111	324	DRK GRX MASS SDY SH		1016.164	1.333
112	554	XTLIZED MASS SS		1019.247	3.083
113	324	DRK GRX MASS SDY SH		1030.580	11.333
114	124	DRK GRX SH		1032.080	1.500
115	324	DRK GRX MASS SDY SH		1041.330	9.250
116	554	XTLIZED MASS SS		1053.330	12.000
		* BED:LVR 0		1156.663	103.333
117	554	XTLIZED MASS SS			
118	564	HARD MASS SS	PER	1166.413	9.750
119	124	DRK GRX SH		1174.413	8.000
120	759	XTLIZED SS W/COAL SPARS		1176.413	2.000
121	554	XTLIZED MASS SS		1177.246	.833
122	324	DRK GRX MASS SDY SH		1183.246	6.000
123	554	XTLIZED MASS SS		1183.996	.750
		* BED:LVR 0		1215.579	31.583
124	021	COMMON BANNED COAL			
		* BED:PCR 20		1216.079	.500
125	124	DRK GRX SH			
126	021	COMMON BANNED COAL		1216.246	.167
127	124	DRK GRX SH		1216.329	.083
				1217.162	.833

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

SERIAL NUM:IC1092686-003-3.00

LOG#C T (V)GHT J (VA) 1 2 T: 24000-1 ID# 71

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
128	030	IMPURE COAL		1217.329	.167
		* BED:PCS 20			
129	124	DRK GRY SH		1217.496	.167
130	544	GRY MASS SS		1268.246	50.750
131	124	DRK GRY SH		1285.829	17.583
132	021	COMMON BANDED COAL		1292.412	6.583
		* BED:PCA 20 PCG 20			
133	124	DRK GRY SH		1293.412	1.000
134	544	GRY MASS SS		1307.329	13.917
135	124	DRK GRY SH		1307.412	.083
136	021	COMMON BANDED COAL		1308.193	.781
		* BED:PCS 10 PCS 10			
137	123	DRK GRY SH W/COAL STKS		1308.339	.146
138	021	COMMON BANDED COAL		1310.745	2.406
		* BED:PCS 20			
139	124	DRK GRY SH		1310.755	.010
140	021	COMMON BANDED COAL		1311.943	1.188
		* BED:PCS 20			
141	021	COMMON BANDED COAL		1311.943	.000
		* BED:PCS 30 PCS 30			
142	124	DRK GRY SH		1327.401	15.456
143	324	DRK GRY MASS SDY SH		1341.234	13.833

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

SERIAL NUM:IC1092686-003-3.00

LOG#(J) EVENT I (VA) (2 1: 2400.3) ID# 7

IDENTIFICATION SECTION

1. QUAD NAME: VMSMT
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 7
5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK COAL COMPANY
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-221
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
9. CONTRIBUTING COMPANY DOW#: L-221

COORDINATES OF HOLE OR SECTION

12.1 STATE CODE: VAS
12.2 STATE PLANE N/S: 3608657.64
12.3 STATE PLANE E/W: 1044114.15
13.1 COMPANY GRID N/S: 20909.00
13.2 COMPANY GRID E/W: 22177.00

CIVIL DISTRICT WHERE LOCATED

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

BOREHOLE OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1485.00 DRILL ANGLE 0.
22. METHOD OF ELEVATION DETERMINATION: U
23. NAME OF PERSON LOGGING: COAL DRILLING
24. YEAR DRILLED OR MEASURED: 1974
25. TOTAL DEPTH OF DRILL HOLE: F 1460.000
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: JMW
28. CODE OF LOWERMOST IDENTIFIABLE BED: MC2
29.1 KIND OF RECORD: C
29.2 METHOD OF LITHO DESCRIPTION: (CODE)
30.1 UNITS OF MEASUREMENT: (PIF)
30.2 METHOD(S) OF MEASUREMENT: (THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: KJF
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 10
LAST MODIFIED BY: DGL

DATE: 9/3/1992

USER DATA:

LOG#1 1 DVSHT 3 INAI (2 1: 24000.) 10= 7

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASING ON SURFACE			
2	544	GRY MASS SS		30.000	30.000
3	324	DRK GRY MASS SDY SH		60.000	30.000
4	021	COMMON BANDED COAL		67.000	7.000
		* BED:JAW 20 JAN 20		68.503	1.503
5	324	DRK GRY MASS SDY SH			
6	544	GRY MASS SS		79.416	10.833
7	124	DRK GRY SH		120.249	40.833
8	323	DRK GRY SH W/SS STKS		121.416	1.167
9	124	DRK GRY SH		142.416	21.000
10	021	COMMON BANDED COAL		157.749	15.333
		* BED:TIL 20 TIL 20		158.166	.417
11	124	DRK GRY SH		160.166	2.000
12	021	COMMON BANDED COAL		160.833	.667
		* BED:TIL 30 TIL 30			
13	124	DRK GRY SH		162.833	2.000
14	323	DRK GRY SH W/SS STKS		166.166	3.333
15	543	GRY SS W/SH STKS		171.666	5.500
16	323	DRK GRY SH W/SS STKS		260.566	69.000
17	124	DRK GRY SH		247.666	7.000
18	034	BONE		247.749	.083
		* BED:USB 10			
19	021	COMMON BANDED COAL		248.082	.333
20	023	COAL W/BONE STKS		248.249	.167
		* BED:USB 10			
21	124	DRK GRY SH		248.749	.500
22	544	GRY MASS SS		293.499	44.750
23	749	GRY SS W/COAL SPARS		305.499	12.000
24	124	DRK GRY SH		377.832	72.333
25	021	COMMON BANDED COAL		378.832	1.000
		* BED:GYC 10 GYC 10			
26	544	GRY MASS SS		416.749	37.917
27	124	DRK GRY SH		433.249	16.500
28	324	DRK GRY MASS SDY SH		480.249	47.000
29	021	COMMON BANDED COAL		480.832	.583
		* BED:MFB 20 MFB 20			
30	124	DRK GRY SH		485.249	4.417
31	324	DRK GRY MASS SDY SH		494.832	9.583
32	124	DRK GRY SH		499.499	4.667
33	021	COMMON BANDED COAL		499.749	.250
		* BED:LSS 10 LSS 10			
34	324	DRK GRY MASS SDY SH		509.416	9.667
35	544	GRY MASS SS		608.166	99.750
36	323	DRK GRY SH W/SS STKS		616.166	11.000
37	124	DRK GRY SH		618.666	2.500
38	021	COMMON BANDED COAL		619.249	.583
		* BED:UHP 10 UHP 10			
39	544	GRY MASS SS		652.249	33.000
40	124	DRK GRY SH		652.582	.333
41	021	COMMON BANDED COAL		652.915	.333
		* BED:UHP 20			

LOG#C 1 COMMENT 1 (VAL [2 1: 24000.] 10= 7

LINE	CODE	ENGLISH	COMMENT	CUMULATIVE	UNIT
42	023	COAL W/BONE STKS			
43	021	COMMON BANDED COAL		653.498	.583
		* BED:UHP 20		654.165	.667
44	124	DRK GRY SH			
45	324	DRK GRY MASS SOY SH		656.165	2.000
46	544	GRY MASS SS		669.665	13.500
47	124	DRK GRY SH		696.165	26.500
48	021	COMMON BANDED COAL		697.748	1.583
		* BED:AMP TO HNP 10		698.498	.750
49	124	DRK GRY SH			
50	324	DRK GRY MASS SOY SH		701.665	3.167
51	544	GRY MASS SS		710.665	9.000
52	324	DRK GRY MASS SOY SH		721.832	11.167
53	124	DRK GRY SH		723.382	1.500
54	324	DRK GRY MASS SOY SH		768.915	45.583
55	124	DRK GRY SH		769.915	1.000
56	021	COMMON BANDED COAL		780.415	10.500
		* BED:MRC 10		782.665	2.250
57	124	DRK GRY SH			
58	021	COMMON BANDED COAL		783.332	.667
59	124	DRK GRY SH		784.082	.750
60	021	COMMON BANDED COAL		784.415	.333
61	023	COAL W/BONE STKS		785.082	.667
		* BED:MRC 10		785.249	.167
62	124	DRK GRY SH			
63	324	DRK GRY MASS SOY SH		785.665	.417
64	124	DRK GRY SH		796.666	11.000
65	021	COMMON BANDED COAL		797.416	.750
		* BED:MRC 20 MRC 20		798.166	.750
66	324	DRK GRY MASS SOY SH			
67	543	GRY SS W/SH STKS		799.749	1.583
68	124	DRK GRY SH		827.749	28.000
69	021	COMMON BANDED COAL		828.999	1.250
		* BED:LHP 10		829.499	.500
70	023	COAL W/BONE STKS			
		* BED:LHP 10		829.666	.167
71	124	DRK GRY SH			
72	324	DRK GRY MASS SOY SH		830.833	1.167
73	124	DRK GRY SH		833.833	3.000
74	124	DRK GRY SH		843.833	10.000
75	028	COAL W/SH STKS		845.666	1.833
		* BED:LHP 20		845.916	.250
76	021	COMMON BANDED COAL			
		* BED:LHP 20		847.583	1.667
77	124	DRK GRY SH			
78	324	DRK GRY MASS SOY SH		849.916	2.333
79	553	XTLIZED SS W/SH STKS		852.166	2.250
80	124	DRK GRY SH		899.583	47.417
81	023	COAL W/BONE STKS		913.250	13.667
		* BED:PCP 10		913.500	.250

LOG# 1 DWGHT 7 (VAL 1 2 1: 24000.1 10+ 7

LINE	CODE	ENGLISH	COMMENT	CUMULATIVE	UNIT
82	021	COMMON BANDED COAL			
83	023	COAL W/BONE STKS		915.833	2.333
84	123	DRK GRY SH W/COAL STKS		916.333	.500
85	021	COMMON BANDED COAL		916.750	.417
		* BED:PC9 10		917.167	.417
86	123	DRK GRY SH W/COAL STKS			
87	124	DRK GRY SH		917.500	.333
88	543	GRY SS W/SH STKS		920.500	3.000
89	124	DRK GRY SH		937.667	17.167
90	123	DRK GRY SH W/COAL STKS		954.667	17.000
91	021	COMMON BANDED COAL		955.250	.583
		* BED:PC9 20 PC9 20		956.000	.750
92	323	DRK GRY SH W/SS STKS			
93	124	DRK GRY SH		968.833	12.833
94	021	COMMON BANDED COAL		975.083	6.250
		* BED:PC8 10		975.250	.167
95	123	DRK GRY SH W/COAL STKS			
96	023	COAL W/BONE STKS		975.583	.333
		* BED:PC8 10		977.333	1.750
97	123	DRK GRY SH W/COAL STKS			
98	124	DRK GRY SH		978.416	1.083
99	124	DRK GRY SH		981.249	2.833
100	554	XTLIZED MASS SS		1008.082	26.833
101	124	DRK GRY SH		1011.082	3.000
102	124	DRK GRY SH		1016.082	5.000
103	023	COAL W/BONE STKS		1017.082	1.000
		* BED:PC7 10 PC7 10		1017.249	.167
104	124	DRK GRY SH			
105	554	XTLIZED MASS SS		1018.916	1.667
		* BED:12A 0		1020.333	1.417
106	324	DRK GRY MASS SDY SH			
107	555	XTLIZED SS W/SH STKS		1028.083	7.750
108	554	XTLIZED MASS SS		1042.083	14.000
109	754	XTLIZED QTZ PEB CGL	QTZ PEBB	1132.585	90.500
110	021	COMMON BANDED COAL		1137.250	4.667
111	554	XTLIZED MASS SS		1137.750	.500
112	754	XTLIZED QTZ PEB CGL		1139.250	1.500
113	556	XTLIZED MASS SS		1141.250	2.000
114	754	XTLIZED QTZ PEB CGL		1175.250	32.000
		* BED:12A 0		1183.583	10.333
115	021	COMMON BANDED COAL			
		* BED:PC5 10 PC5 10		1183.666	.083
116	124	DRK GRY SH			
117	033	BONE W/COAL STKS		1184.749	1.083
		* BED:PC5 20		1184.832	.083
118	021	COMMON BANDED COAL			
		* BED:PC5 20		1189.499	4.667
119	124	DRK GRY SH			
120	749	GRY SS W/COAL SPARS		1205.999	16.500
121	124	DRK GRY SH		1240.332	34.333
				1244.665	4.333

LOG# 1 (VMSWT 3 (VA) 1 2 1: 24000.1 10= 7

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
122	033	BONE W/COAL STRS		1245.165	.500
		* BED:PC4 20			
123	124	DRK GRV SH		1245.248	.083
124	033	BONE W/COAL STRS		1245.331	.583
		* BED:PC4 20			
125	124	DRK GRV SH		1251.581	5.750
126	540	GRV SS		1288.581	37.000
127	324	DRK GRV MASS SOY SH		1294.081	7.500
128	124	DRK GRV SH		1303.414	7.333
129	021	COMMON BANDED COAL		1304.247	.833
		* BED:PC3 10 PC3 10			
130	034	BONE		1304.414	.167
131	021	COMMON BANDED COAL		1308.352	3.938
		* BED:PC3 20 PC3 20			
132	124	DRK GRV SH		1309.081	.729
133	124	DRK GRV SH		1311.081	2.000
134	324	DRK GRV MASS SOY SH		1317.081	6.000
135	124	DRK GRV SH		1323.414	6.333
136	324	DRK GRV MASS SOY SH		1332.414	9.000
137	124	DRK GRV SH		1344.164	11.750
138	033	BONE W/COAL STRS		1344.247	.083
		* BED:PC2 10 PC2 10			
139	114	BLK SH		1344.914	.667
140	021	COMMON BANDED COAL		1345.206	.292
		* BED:PC2 20			
141	033	BONE W/COAL STRS		1345.873	.667
		* BED:PC2 20			
142	124	DRK GRV SH		1347.706	1.833
143	324	DRK GRV MASS SOY SH		1356.623	8.917
144	540	GRV SS		1439.990	105.375

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

SERIAL NUMBER: IC1092855-003-3.00

LOG#(1 (VMSV 1 (VKT (2 1: 24000.2) 3# 72

IDENTIFICATION SECTION

1. QUAD NAME: VMSV
2. STATE LOCATION OF QUAD: VA
3. SCALE OF QUAD: 2
4. LOG ID #: 72
5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP
6. DIVISION OR TRACT:
7. DRILL HOLE NUMBER: L-222
8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
9. CONTRIBUTING COMPANY CODE: L-222

COORDINATES OF HOLE OR SECTION

12.1 STATE CODE: VAS
12.2 STATE PLANE N/S: 3610136.21
12.3 STATE PLANE E/W: 10442669.78
15.1 COMPANY GRID N/S: 22627.00
15.2 COMPANY GRID E/W: 25691.00

CIVIL DISTRICT WHERE LOCATED

17. STATE WHERE HOLE LOCATED: VA
18. COUNTY: RICHMOND
19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE: BEEKING
20. GROUND LOCATION DESCRIPTION: VPS SHAFT C

GENERAL OR SECTION DESCRIPTION

21. ELEVATION AT TOP OF HOLE OR SECTION: F 1426.50 DRILL ANGLE: 0.
22. METHOD OF ELEVATION DETERMINATION: B
23. NAME OF PERSON LOGGING: CHURCH
24. YEAR DRILLED OR MEASURED: 1974
25. TOTAL DEPTH OF DRILL HOLE: F 1466.200
26. BED CODE REGION IDENTIFIER: NAPP
27. CODE OF UPPERMOST IDENTIFIABLE BED: NVM
28. CODE OF LOWERMOST IDENTIFIABLE BED: MCS
29.1 KIND OF RECORD: C
29.2 METHOD OF LITHO DESCRIPTION: 1(CODE)
30.1 UNITS OF MEASUREMENT: 1(FIT)
30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOG

31. PERSON SUBMITTING LOG FOR ENTRY: DGL
32. DATE OF LOG SUBMISSION (MM/DD/YYYY): 3/2/87
LAST MODIFIED BY: DGL
DATE: 9/3/1992
USER DATA:

LOG#1 1 DWSHT 1 DIA 1 2 1: 24000.1 TB= 72

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	001	CASTING OR SURFACE		21.000	21.000
2	544	GRY MASS SS		23.000	2.000
3	544	GRY MASS SS		28.750	5.750
4	543	GRY SS W/SH STKS		42.500	13.750
5	124	DRK GRY SH		43.083	.583
6	021	COMMON BANDED COAL		43.983	.500
* BED:RYN 20					
7	124	DRK GRY SH		44.166	.583
8	021	COMMON BANDED COAL		44.833	.667
* BED:RYN 20					
9	124	DRK GRY SH		45.916	1.083
10	540	GRY SS		107.999	62.083
11	324	DRK GRY MASS SDT SH		118.416	10.417
12	543	GRY SS W/SH STKS		121.916	3.500
13	749	GRY SS W/COAL SPARS		125.333	3.417
14	323	DRK GRY SH W/SS STKS		134.083	8.750
15	124	DRK GRY SH		152.083	18.000
16	323	DRK GRY SH W/SS STKS		159.416	7.333
17	124	DRK GRY SH		166.333	6.917
18	021	COAL W/SOME STKS		166.500	.167
* BED:JAM 10					
19	124	DRK GRY SH		166.917	.417
20	021	COMMON BANDED COAL		167.667	.750
* BED:JAM 10					
21	544	GRY MASS SS		215.167	47.500
22	324	DRK GRY MASS SDT SH		221.500	6.333
23	124	DRK GRY SH		222.083	.583
24	021	COMMON BANDED COAL		223.750	1.667
* BED:JAM 20 JAM 20					
25	123	DRK GRY SH W/COAL STKS		224.083	.333
26	124	DRK GRY SH		224.250	.167
27	124	DRK GRY SH		224.500	.250
28	124	GRY GRY SH		227.083	2.583
29	324	DRK GRY MASS SDT SH		230.166	3.083
30	544	GRY MASS SS		280.333	50.167
31	323	DRK GRY SH W/SS STKS		292.333	12.000
32	543	GRY SS W/SH STKS		301.000	8.667
33	323	DRK GRY SH W/SS STKS		315.583	14.583
34	124	DRK GRY SH		316.416	.833
35	021	COMMON BANDED COAL		316.833	.417
* BED:TIL 20 TIL 20					
36	124	DRK GRY SH		318.833	2.000
37	021	COMMON BANDED COAL		319.166	.333
* BED:TIL 30 TIL 30					
38	124	DRK GRY SH		320.583	1.417
39	543	GRY SS W/SH STKS		343.583	23.000
40	323	DRK GRY SH W/SS STKS		394.583	50.000
41	021	COMMON BANDED COAL		394.750	.167
42	124	DRK GRY SH		398.500	3.750
43	021	COMMON BANDED COAL		398.750	.250
* BED:URS 10 URS 10					

LOG# 1 1 (WENT 1 (VAT 1 2 1: 24000.3 ID# 72

LINE	CODE	EMULSION	COMMENTS	CUMULATIVE	UNIT
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44	124	DRK GRY SH		401.000	2.250
45	023	COAL W/BONE STKS		401.083	.083
46	124	DRK GRY SH		402.583	1.500
47	540	GRY SS		423.666	21.083
48	021	COMMON BANDED COAL		423.749	.083
* BED:USB 20 USB 20					
49	749	GRY SS W/COAL SPARS		428.332	4.583
50	543	GRY SS W/SH STKS		477.999	49.667
51	124	DRK GRY SH		597.499	79.500
52	021	COMMON BANDED COAL		558.592	1.083
* BED:BYC 10 BYC 10					
53	543	GRY SS W/SH STKS		577.082	18.500
54	749	GRY SS W/COAL SPARS		589.665	12.583
55	124	DRK GRY SH		608.998	19.333
56	543	GRY SS W/SH STKS		618.998	10.000
57	323	DRK GRY SH W/SS STKS		645.248	26.250
58	021	COMMON BANDED COAL		646.081	.833
* BED:PSB 20 PSB 20					
59	124	DRK GRY SH		648.081	2.000
60	543	GRY SS W/SH STKS		657.664	9.583
61	124	DRK GRY SH		667.414	9.750
62	123	DRK GRY SH W/COAL STKS		668.831	1.417
63	124	DRK GRY SH		669.914	1.083
64	021	COMMON BANDED COAL		670.331	.417
* BED:LSB 10 LSB 10					
65	124	DRK GRY SH		672.748	2.417
66	023	COAL W/BONE STKS		673.248	.500
* BED:LSB 20 LSB 20					
67	124	DRK GRY SH		675.748	2.500
68	324	DRK GRY MASS SOT SH		681.248	5.500
69	543	GRY SS W/SH STKS		721.998	40.750
70	123	DRK GRY SH W/COAL STKS		723.248	1.250
71	124	DRK GRY SH		725.498	.250
72	543	GRY SS W/SH STKS		754.498	31.000
73	323	DRK GRY SH W/SS STKS		763.498	9.000
74	124	DRK GRY SH		775.081	11.583
75	021	COMMON BANDED COAL		776.998	1.917
* BED:UMP 10 UMP 10					
76	123	DRK GRY SH W/COAL STKS		777.081	.083
77	749	GRY SS W/COAL SPARS		792.081	15.000
78	021	COMMON BANDED COAL		796.081	2.000
* BED:UMP 20 UMP 20					
79	124	DRK GRY SH		795.414	1.333
80	324	DRK GRY MASS SOT SH		828.831	33.417
81	124	DRK GRY SH		828.914	.083
82	021	COMMON BANDED COAL		830.664	1.750
* BED:UMP 10 UMP 10					
83	124	DRK GRY SH		833.331	2.667
84	543	GRY SS W/SH STKS		858.998	25.667
85	323	DRK GRY SH W/SS STKS		903.998	45.000