APPENDICES

APPENDIX A

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

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SUMMANY OF WELL INFORMATION WITHIN A OME MILE RADIUS OF V.P. NUMBER 5 MINE

We11(2)		Coord	inates		Depth	
Number	Doerator	N/S	E/R	Well Type	(Feet)	Formation
1-81	Island Greek	3614998.98	10433987.17	Plugged Exploration Core Holes	1732	Pocalontas #3
L-83	Island Creek	3615426.76	10438206.54	Plugged Exploration Core Holes	1367	Pocuhontas #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	231t	Pocabontas #2
L-96	Island Creek	3608794.28	10430513.27	Plugged Exploration Core Holes	1780	Pocahontas #3
L-108	Island Craek	3512441.82	10434057.22	Plugged Exploration Core Holes	1791	Pocabontas #3
1,-111	Island Creek	360779.28	10439116.24	Plugged Exploration Core Holes	1462	Pocahontus #3
L-114	Island Creek	3604361.12	10437041.30	Plugged Exploration Core Boles	1963	Pocahontas #1
L-117	Island Creek	3608689,74	10435713.85	Plugged Exploration Core Holes	1805	Pocehontes #3
1199	Island Creek	3610661.91	10444171.81	Plugged Exploration Core Holes	1546	Pocehontas #3
L-201	Island Creek	3609502,54	10437585.69	Plugged Exploration Core Holes	1646	Pocahontas #1
L-206	Island Creek	3513713.79	10437927.33	Plugged Exploration Core Holes	1342	Pocabontas #3
L-221	Island Creek	3608657.64	10441114.15	Plugged Suploration Core Holes	1460	Pocahontus #2
L-222	Island Creek	3610138.21	10442469.78	Plugged Exploration Core Holes	1463	Pocahoncas #3
L-223	Island Craek	3609387.85	10440790.43	Plugged Exploration Gore 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	Flugged Exploration Core Noles	2130	Blusstone
VVH-90	Island Crack	3600332.30	10435667.91	Vertical Ventilation	2181	Pocahontas #4
VVH-91	Island Creek	3606772,65	10435633.24	Vertical Ventilation	2275	Pocabontas #3
VVH-92	Island Creek	3607549.03	10435565,01	Vertical Ventilation	2122	Pocahontan #4
VVH-93	Island Cresk	3609289.14	10435419.95	Vertical Ventilation	1571	Pocahontas #3
VVH-105	Island Greek	3609202.05	10436572.78	Vertical Ventilation	1703	Pocabontas #3
VVH-110	Island Creek	NO LOG AVAI	LABLE	Vertical Ventilation	NO LOG	AVAILABLE
VVH-112	Island Creak	3608424.60	10437174_50	Vertical Vantilation	1785	Pocahontas #3
VVH-11	Island Creek	3608302.54	10438187.75	Vertical Ventilation	1984	Pocahontas #3
VVII-11	Island Greek	NO LOG AVAT	TABLE	Vertical Ventilation	NO 1,0G	AVAILABLE



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SUMMARY OF WELL INFORMATION WITHIN A ONE MILE RADIUS OF V.P. MUNDER 5 MINE (conclined)

Well(2)		Coord	Inates		Depth	
Number	Operator	8/3	E/W	Wall Type	(Feet)	Formatium
VVII- 116	Island Greek	NO LOG AVAI	LABLE	Vertical Ventilation	HO LOG A	VATLABLE
WH-168	Island Creek	3606581.61	10438940.09	Vertical Ventilation	L507	Pocabontan #3
VVH-187	Island Creek	NO LOG AVAI	LABLE	Vertical Ventilation	NO LOG A	VATLABLE
SHUMRZ	Island Creek	3609714.69	10442026-97	Test Hole	1391	Pocahontas #3
SH2CWI	Island Crack	3609548.59	10441964.13	Water Supply for Mine	1429	Focahontas #3
SNITE	Island Creek	NO LOG AVAI	LABLE	Mitrogen Injection (fire control)		Pocahontas #3
5W1T2	Island Greek	NO LOG AVAL	LABLE	Mitrogen Injection (fire control)		Pocahontas #3
5RKDST	Island Creek	3609550.24	10441905.07	Rock Dust Hole for Mining	1416	Pocahoncas #3
CBML-T2	OXY-USA	NO LOG AVAI	LABLE	Coalbed Nethane	NO LOG A	MAILANIE
CBH1-T3	OXY-USA	3613352.25	10432019.52	Coalbed Nerhane	2426	Pecahontas #3
CEN1-T4	OXY-USA	3613270,35	10434290.87	Coelbed Nethane	2262	Pocahontas #3
CRM1-T5	OXY-USA	3612155.73	10436493.17	Coalbed Wethane	1571	Pocahontas #3
CBM1-U3	OXY-USA	3611394.65	10431693.45	Coelbed Methane	2009	Pocahontas #3
CBM2-V10	OXY-USA	3614042.07	10439108.27	Goalbed Methane	1621	Pocahontas #3
CBM1-W10	OXY-USA	3607256.18	10444257.06	Coalbed Mothane	1523	Pocabontas #3
CRM1-W11	OXY-OSA	3607441.23	10446023.75	Coslbod Methane	1650	Pocahoncas #3
CBM1-X9	OXY-USA	3604502.07	10445089.24	Coalbed Methane	1513	Pocuhontas #2
CBM1-X10	OXY-USA	3604113.90	10445089.24	Coalbed Methane	1575	Pocahontas #3
CBM1-Y9	ORY-USA	3602624.87	10442660.02	Coalbed Methane	1475	Pocahontas #3
CBM1-56	Island Creek	3613723.91	10436987.08	Coalbed Methans	1554	Pocahontas #3



APPENDIE ACT

SIMMARY OF WELL INFORMATION WITHIN A ONE MILE RADIUS OF V.F. NUMBER 5 HINE (constaured)

Wel 1(2)		Coord	Linates		Bepth	
Number	Operator	N/S	E/N	Well Type	(Feet)	Formation
CBM1-Y10	DOCY-USA	3602393.65	10443966,09	Coalbed Wethene	1710	Pocahontas #2
CM1-S7	DXY-USA	3614369.19	10439754.36	Cualhed Methane	1682	Pocahontas #2
CBM1-S8	OXY-USA	3613570.26	10440995_11	Coathed Methane	1729	Pocabontas #2
CBM1-T7	DXY-USA			WEVER DRILLED		9.1-677,000,000
CBHI-U2	OXY-USA	3611029.72	10430737.68	Coalbed Methane	1960	Pocahontas #3
CBM1-U10	OXY-USA	3610537.96	10444704.13	Coalbed Methane	1690	Pocahnotas #3
CBM1-W3	OXY-USA			NEVER DRILLED	104705	1. Section 2. section 4.48
CBM1-XS	OXY-USA			NEVER DRILLED		
CBM1-28	OXY-USA	3500669, 10	10441272.65	Coalbed Nothans	1606	Pocahoncas #2
CRM1-29	OXY-USA	3601336.24	10442947.27	Coalhed Nethane	1547	Pocahontas #1

⁽²⁾ For location of wells see Drawing 91-56-1.



⁽i) Summary of well information provided by Island Creek Coal Company to MSRS Consultants, Inc., May, 1992.

APPENDIX B
WATER SUPPLY INVENTORY LIST

WATER SUPPLY INVENTORY LIST

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

INVENTORIED BY: BOE BROWN AND GERALD RAMSEY DATE: 3/18/80 THROUGH 3/20/80

Map No.	Owner's Name	Address	
W-1	Vern Church Phone: 597-8063	Route 1, Box 94 Vansant, Virginia 24	656
M-5	Virginia Correctional Division Field Unit 31 Phone: 597-7409	Vansant, Virginia 246	656
W-3	Walter Price Phone: 597-7017	Box 226 Vansant, Virginia 246	656
W-4	Lonnie Brown Phone: 597-8039	Rt. 1, Box 92-A Vansant, Virginia 246	656
W-5	William Rife Phone: 597-7372	Rt. 1, Box 97 Vansant, Virginia 246	656
W-6	Eugena Yates	Vansant, Virginia 246	656
W-7	Larry Taylor Phone: 597-7620	Box 532 Vansant, Virginia 246	556
W-8	Tommy Bailey	Box 616 Vansant, Virginia 246	556
W-9	Donald Ramey Phone: 592-8316	Box 835 Vansant, Virginia 246	656
W-10	Alvery Tiller Phone: 547-7623	Vansant, Virginia 246	555
W-11	Carrie Tiller	Vansant, Virginia 246	556
W-12	Anita Prater Phone: 592-8282	Vansant, Virginia 246	556
W-13	Mave Stacey	No Address Given	

APPENDIX B(1)

WATER SUPPLY INVENTORY LIST

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

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

Map No.	Owner's Name	Address	
W-14	VP =5 Mining Company Phone: 498-4511	P.O. Drawer L Cakwood, Virginia	24621
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

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.

WATER SUPPLY INVENTORY LIST VP NUMBER 5 MINE

PERMIT APPLICATION NUMBER VAS2D926BBUC DESKINS, BUCHANAN COUNTY, VIRGINIA INVENTORY BY JEFF BOORD AND JOE PERMELL DATE: 4/26/93 THROUGH 4/27/93

Man No ter	Name	Address
B-I	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
8-5	Arthur Duty Phone: 597-7820	P.O. Hox 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 Vaneant, 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 VAS2D926BBUC DESKINS, BUCHANAN COUNTY, VIRGINIA INVENTORY BY JEFF BOORD AND JOE PERNELL DATE: 4/26/93 THROUGH 4/27/93 (continued)

Map No. (4)	Name	Address
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	Jesnings Boyd Phone: 597-8964	Box 355 Vansant, VA 24656
B-15	Frene Tiller	Vansant, VA 24656
B-15	Thomas & Nadine Pailey Phone: 597-8531	Box 735 Vansant, VA 24656
B-17&18	Loraine Ramey Phone: 597-8316	Box 485 Vansant, VA 24656
B-19	Dean Tiller Phone: 259-6275	Box 662 Vansant, VA 24656
B-20	Jeff Lester Phone: 597-2438	Box 912 Vansant, VA 24656
B-21	Tolbert & Donna Adkins Phone: 597-7841	Box 267 Vansant, VA 24656
8-22	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



WATER SUPPLY INVENTORY LIST VP NUMBER 5 MINE PERMIT APPLICATION NUMBER VAS2D926BEUC DESKING, BUCHANAN COUNTY, VIRGINIA INVENTORY BY JEFF BOORD AND JOE PERMELL DATE: 4/26/93 THROUGH 4/27/93 (continued)

Mag No. (4)	Name	Address
J-3	Mary Jane Shortridge	Box 95 Vansant, VA 24556
J-4	Bill Shortridge	Box 95 Vansant, VA 24656
2-5	Dorthy 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: 597-8952	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 Vansent, VA 24656



APPENDIX BILL

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

Map No. (*)	Name	Address
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: 597-8811	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 B. Young	Vansant, VA 24656
J-22	Jackie & Martha Owens	Vansant, VA 24656

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.



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

W-8

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-4

W-5

W-6

W-7

W-3

	Supply Use Total Depth Case Depth Well Diameter Elevation Year Drilled Yield (gallons per minute)	Spring Domestic	Well Domestic 130 6 1530 1975 4.8	Well Domestic 80 70 6 1520 1965	Well Domestic 90 97 6 1500 1976	Well Domestic 204 	148 6 1590	Well Domestic 49.5 20 6 1520 1978	Well Domestic 105 20 6 1500 1970
		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 Piczcmeter
	Total Depth	30	62	58	-		208	305	14
	Case Depth	18		70	97		50	50	14
	Well Diameter	6	6	-6			8	8	5
	Elevation	1510	1540	1570	1600	1590	1465	1420	1754
0	Year Drilled	1978	1970	1960	* - * ·	-	1976	1977	1976
ì	Vield (gallons per minute)		2002			-	25	200	

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

	Map No.	□-T	B-2	B-3
	supply	Neighbor/Tank	Well/Tank	Well
	Supplier	A. Hagerman/Public Service Authority	/PSA-S. Taylor	w==
	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	Stee1/	Steel
	Type of Pump	See B-2	Surface/	Surface
	Status	Active	Active/	Temporary Inactive
k	No. of People	7	5	0



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 (contibued)

	Map No.	<u>H-4</u>	B-5	B-6	B-7	B-8	B-9
	Supply	Well	Well	Well	Neighbor	Well	Well
	Supplier		200	-	C. Shortridge		
	Use N	on-drinking domestic	Domestic	Domestic	(See B-6)	Non-drinking domestic	Domestic
	Age (years)	12-15	20±	46		30 <u>±</u>	20±
	Depth-Well	754-801	105'	2001	(See B-6)	67:	75'
	Depth-Water	****	****	24	(See B-6)	33'	30'
	Casing Type	Galvanized	Galvanized	Steel	(See B-6)	Galvanized	Steel
	Casing Lengt	h	90	100/	(See B-6)	35	
	Type of Pump	Submersible	Submersible	Submersible	(See B-6)	Submersible	Submersible
0	Status	Active	Active	Active	Active	Active	Dry
١	No. of Peopl	e 1	2	7	2	2	2



SUMMARY OF SUPPLY CONSTRUCTION VP NUMBER 5 MINE PERMIT APPLICATION NUMBER VAS2D926BBUC INVENTORY BY JEFF BOORD AND JOE PERNELL DATE: 4/26/93 TEROUGE 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	Domastic	Domestic	Domestic	Non-drinking domestic	Domestic
	Age	20±	40	45	27	15-20	****
	Depth-Well	40	351	35.		2222	70±
	Depth-Water	15-20/	****	30'		4.594	****
	Casing Type	Rock Lined	Galvanized	Rock Lined		***	-
	Casing Leng	th	1242				70±
	Type of Pun	p Bail	Submersible	Surface	Surface to Tank	Submersible	Surface
9	Status	Active	Active	Active	Dry 2 years Now Stream-fe	Active ed	Active
1	No. of Peop	le 2	2	3	2	4	6

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.	B-15	H-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*/	Sec B-18	76'	150
Depth-Water	4004	901/	See B-18		
Casing type		Stee1/	Sec B-18	Galvanized	Galvanized
Casing Length			See B-18	++++	~
Type of Pump		Submersible (2)/	Sec B-18	Surface	Submersible
Status	~	Caved-inactive/Active	Dry - Temp.?	Dry - Temp. 7	Dry - Temp_?
No. of People		2/2	a	10	3

Continued & Expension Constitute

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.	B-20	<u>B-21</u>	<u>B-22</u>	<u>J-1</u>	J-2	<u>1-3</u>
Supply	Dug Well	Well	Well	Well	Well	Well
Supplier	*515	****			7708	
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'		75-804	****		
Casing Type	Rock Lined	Galvanized	Galvanized	Steel	6" Steel	****
Casing Lengt	h		10	****	****	
Type of Pump	Shallow	Submersible	Submersible	Submersible	Submersible	Submersible
Status	Dry-Temp.?	Dry-Temp.?	Active	Dry-Temp.?	Dry-Temp.?	Active
No. of Peopl	e 3	7	9 (3 houses)	2	7	Ĵ

Entramed & Expending Constitues

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

	Map No.	<u>J-4</u>	J-5	<u>J-6</u>	J-7	$\mathcal{J}-8$	J-9
	Supply	Well	Spring	Well	Well	Well	Well
	Supplier	3444		+ = + -	4000	200	
	Use	Domestic	Domestic	Domestic	****	Domestic	Domestic
	Age (years)	20±	151	2	5484	11±	10±
	Depth-Well			222'	-68-	175'	400
	Depth-Water		***		** 4**		****
	Casing Type	Steel		Steel		Stee1	Steel
	Casing Length		****		****		(*) x - b
	Type of Pump	Submersible	Gravity	Submersible	****	Submersible	Submersible
	Status	Inactive- Temp.7	Active	Activa	****	Active	Active
3	No. of People	. 0	2	2	1242	2.	9 (2 families)



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

	Map No	J-10	J-11	<u>J-12</u>	<u>J-13</u>	J-14	J-15
	Supply	Spring	Well	Spring	Spring	Spring	Wal1
	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	4414	- (a - (a -)		444	See U-13	8448
	Casing Type		Steel		14844	See J-13	Steal.
	Casing Length	-	> 4	****	****	See J-13	Jerose's
	Type of Pump	Pump to House	Submersible	Gravity	Gravity	See J-13	Submersible
	Status	Active	Active	Active	Active	Active	Active
1	No. of People	4	3	2	3		2

MSES

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-16	J-17	<u>J-18</u>	J-19	J-20	J-21
Supply	Well	Well	Well	Well	Well	
Supplier	***				2422	****
Use	Domestic	Domestic	Domestic	Domestic	Domestic	
Age (years)	3	11±	11±	7±		***
Depth-Well	100'	85'±	125'	185'	1717	****
Depth-Water	60"	+64+	****	÷ • •-	****	~~~
Casing Type	Steel	Steel	Steel	Steel		
Casing Length	1			-5-4		17000
Type of Pump	Submersible	Submersible	Submersible	Submersible		****
Status	Active	Active	Active	Active	New-Unused	Active
No. of People	3		4	2		

MSES

Appendix B New Page 3I August 24, 1993

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. Kinse:
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 1

LOG-[1 CVNEWT | TWAI [2 T: 24000.1 ID-

IDENTIFICATION SECTION

- 1. QUAU HAME: YNEW?
- 2. STATE LOCATION OF CIMD! VA
- 3. SCALE OF GUAD: 2
- A. LOE 10 4:
- 5.7 LAPURLISHED AROUND, COMPART OR AGENCY WANTE I REAST CREEK CORP
- &. DIVISION ON TRACTE
- 7. BRILL HOLE MUNESHI L-21
- S. CONTAINSTING COMPANY OR AGENCY: ISLAND CREEK CORP
- 9. CONTRIBUTING COMPANY DONN: L-81

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3614998.98
- 12.3 STATE PLANE E/N: 10433987.17
- 15.1 COMPANY GRID W/2: 27050.00
- 15.2 DOMPANY GRED E/W: 14875.00

CIVIL DISTRICT WHERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 18. COMMYY: BUCHANAM
- 19. TOWNSHIP, MACISTERIAL DISTRICT, OR INCORPORATED PLACE:
- 20. GREAND LOCATION DESCRIPTION: WEEN NTW., NEW

DREMOLE OR SECTION DESCRIPTION

- 17. ELEVATION AT TOP OF HOLE OR SECTION: F
- 1602: 10 GRILL ANGLE O.
- 2, WETHER OF ELEVATION DETERMINATION: 8
- 23. MANE OF PERSON LOGGING: JOY
- 24. YEAR DRILLED ON WEASURED: 1959
- 25. TOTAL DEPTH OF DRILL HOLE: F 1752,000
- 26. BED CODE REGION IDENTIFIER; HAPP
- 27. DODE OF UPPERSION TOENTIFIABLE BED: KEN
- 28. CODE OF LOWERHOUS IMENTIFIABLE BED: PCS
- 29.1 KIND OF RECORDE C
- 29.2 METHOD OF LITHD BESCHIPTIONS
- 30.1 UNITS OF MEASUREMENT: 1 CFFF I
- 30.2 METHOD(S) OF MEASUREMENT: 117HK 1

FERSON(S) LAST HODIFYING THIS LOG

- 31. PERBON SUBHITTING LOG FOR ENTRY: DGL
- 32. DATE OF LOG SUBPLESSION (NH/DD/YTTY): 2/20/87

LAST NODIFIED BY: DOL

DATE: 9/3/1992

USER DATAS 6.86" HET DOAL DE 1.5"

PAGE: 2 CAMER NAME: ISLAND CREEK CORPORATION
ALL DESTRICTORESS DATA IN FEET

THENYS L TERON

1 CVAL I 2 1: 24000.1 10- SE

LINE	cong	EAGTIRN	COMMENTS	CHERATIVE	USIT
	704	THE PARTY OF THE P			en 200
1	Contract of the contract of th	CASING OR SURFACE		50,000	50.000
2		DAK GAY SH		59.000	9,000
	322	DRE GRY SH+INTERRED 35		60.667	7.667
	323	DRE GRY SN W/SS STRE		113.417	44.750
,	021	COMMON SANGED COAL SED: KEN 10 KEN 10		113.534	.417
	324	DRK GRY WASS KOY SHI		133.751	19.917
	544	GAT HASS SS		166.501	32,750
	324	DAK GAY MASS SOY SH		219.168	52.667
	021	COMMON BANGED COAL		219.751	583
		BED:ALY 10 ALY 10		219.131	-303
10	124	DRE GRY SN		220.501	.750
11	2777	DRY MASS 69		244.834	24.533
12				245.647	.013
13	100	DRE ERY SW			
13	021	COMPON BANDED COAL		247.165	1.521
		HED:ALY 20 ALY 20		417 448	414
14	1	DEK ORY EH		247,210	.042
15	544	GRY MARS IN		272,002	24.792
16	124	DRK GRY SM		295,919	23.917
17	544	WAY MASS 59		315,036	19.917
18	114	ELE SH		314.669	.833
19	021	COMMON EANOED COAL		318, 127	1.450
		BEDTRUN 20 NVN 20		***	4 144
50	124	DRK GRY SM		125.292	7.125
21	030	IMPLEE COAL		325,335	-083
55	544	CSA WYZE 32		329,002	3.667
23	124	ORE GRY TH		334.752	3,750
24	344	CRY MAGS BE		383.419	48,667
25	114	BLK SH		402.002	18.583
26	252	BRE GRY SH W/RS STES		423.502	23.500
27	544	GRY MARR ST		466.252	40.750
25	124	DEC GRY SH		667,669	7,417
59	120	CONSTRUCT COAL		467_836	-167
70	434	BED: JAM 20 JAM 30		170 007	0.469
30	124	DRIC GAY AM		470.003	2.167
1.30	544	GRY MASS IS		508.586	38,583
	700	COL		512,753	4.157
20	544	DRY MASS SE		526.586	13.833
	322	DRE GRY SHITHTERNED SS		531.003	4.417
	323	DIK SEY SH W/SS STEE		536.586	5,583
	322	DRK GRY SR+INTERSED SS		545,169	8,583
	323	DAK GRY SH W/SE STES		557.836	12.667
36		SEDITIE 20 THE 20		558.419	,583
40	114	BLK SH		559,502	1.083
	021	COMMEN BANDED EDAL		560.169	.667
-		BED:TIL 50 FIL 30		300.104	.007
44	124	ORK GRY SH		561,002	.433
	344	GRY MASS BS			
	324	OHK GRY MASS SOT SH		583.252 659.002	22.250
43	464	UNIT ORT POLICE DUT ON		207.242	75.750

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

LOGAL 1 TANSMY

1 TVAJ I 2 1: 24000_1 ID- 58

LINE	0008	ENGL I SN	COMMUTS	CLMULATIVE	UNIT
44	021	COMMICM BANDED COAL		560,169	1,167
		SED:USB 10 USB 10		2,000	7.128
45	124	DRK MY SH		667.085	6,917
66	544	GRY WASS GG		682,586	15.500
47	124	DRE DRY SN		683,169	.583
46	021	COMMON BANDED COAL		683.502	.333
-		SED-USE 20		1134195	0.45
49	116	BLK SH		683.627	.125
50.	021	COMMON BANDED COAL		583.752	.125
7.5		SED:USB 20		62-11/02	
51	324	DEK GRY MASS SDY SII		704.502	20,750
7.0	322	DRK GRY SIN-INTERSED ST		750.002	45.500
107	564	WE SEAM COUNTY		630.335	80,333
100		BED: HGA O MOA O		9445558	214 8000
54	114	BCK EN		841.252	10.917
55	124	DENC GRY SA		914.502	73.250
56	322	DRE GRY SHILATERSED ST		998,769	03.567
57	124	DAK DRY BH		990-502	.335
58	821	CODESAN BANDED COAL		998.752	,250
	4-	SED: UNP 10		26.511201	1000
59	034	BONE		998.877	. 125
100	150	COMMON BANDED COAL		999.585	.708
-		BED: UNP 10		1127435	2.00
51	174	PLK SH		1000, 164	-585
62	544	GRY NASE ES		1023,668	23.500
63	124	DRK GRY SH		1024.001	,333
6	DZT	COPENON BANDED COAL		1024.834	, 833
71		BED:UNP 20 UNP 20		100,000	3500
65	324	BRK GRY MAGE SOY SH		1028,584	3.750
46	543	GRY SE W/SK STKE		1038,167	9.303
67	124	DRK GRY SH		1055,834	17-567
58	114	BLK SH		1056.084	,250
69	021	COMMON SANDED COAL		1056,251	. 167
21	Jan 100	RED:MHP TO		1000120	1.545
70	030	INFURE COAL		1055.418	. 167
4.5	7.772	BEDEMAP 10		10000	1,540
71	114	BLE SM		1060,585	4.167
	543	TAY OS W/SH STES		7088.002	27.417
	114	DEK BR		1134.102	46.500
74		CAY SE		1135.752	1,250
73		CONMON BANDET COAL		1135.839	-085
	544	CRY HASS SS		1163,002	27.167
	322	DAK GRY SH+JWTGRBED SO		1217,169	54.167
78		CONNON BANDED COAL		1217-667	-500
100		BED:LHP 10 LHP 10		12.11.1047	
79	324	DRX GRY MASS GDY SH		1223.002	5,333
	544	GRY MASE SS		1235.169	12.167
	124	DRIC GRY SH		1236.569	1.500
7	021	COSTON BANDED COAL		1237.252	.563
		BED LINE 20 LIF 20		14111	

LOCAL I LYMENT

1 IVA) 1 2 1: 24000,1 ID= 58

LINE	cose	ENGLISH	COMENTS	CLOULATIVE	UNIT
****	******		*********	***********	*********
03	114	DLT 28		1237,419	-167
24	124	DHK CAY BW		1235.419	1,000
85	343	CRY SE W/SH STKS		1259.002	20,583
86	554	HARD MASS EE		1292.002	33,000
87	123	DRK DRY SH W/COAL STRE		1293.160	1.167
88	023	DOAL WISCHE STYS		1294_669	1.500
		BE0:PC9 10		100000	
89	123	DAK SAY SH W/COAL STEE		1296.002	1.533
90	The second	DOAL W/PYRITE STKS		1296.044	540.
91	300	DOMONON MANDED COAL		1297,398	1.354
		MED: PC9 10		3 3 427	8.90.0
92	173	BLK SH W/COAL STES		1297_690	.292
93	124	DAK SRY SH		1299-669	1,979
94	543	GRY SS W/SH STRE		1305.669	6.000
95	124	ORK GRY SH		1326.336	20.667
96	113	BLK SH W/COML STKS		1328,006	1,750
97	021	DOWNER BASINED TOAL		1329.253	1,167
		BEO:PCF 20 PC9 20		100-100-6	
98	124	DRK SEY SM		1378.003	48.750
99	544	DAY MASS 52		1400.570	22.667
100	364	HARD WASE ES		1479.587	78.917
		BED:LOA O		45.40.00	aca, a
101	769	HARD SE W/COAL SPARS		1483,004	3.617
102	564	HARD WASS SE		1498.504	15.500
105	764	MARD BYZ PES EGL		T496_671	. 1±7
104	964	HARD WASE &S		1516.171	17,500
105	764	HARD STZ PER COL		1526.671	10.500
106	563	HAND SS W/SH ETES		1531.335	4.667
107	764	HARD ATZ PED COL		1560.235	29.917
108	564	HARD NASE 35		1570.005	9.750
100	764	HARD OTZ PER COL		1580.338	10.333
110	124	DOK BRY SW		1580-505	.167
111	564	NARD INCS 15		1643,505	63.000
		BES:LOA D			
112	124	DOK GRY SH		1645_338	1.633
113	021	COMMON BANDED COAL		1645 .463	125
	19.9	SEU :PCA 20			
114	100	SH (UNDTF)		1645,546	-063
115	021	COMMON GANDED COAL		1665.754	.208
176	100	KH (UNDIF)		1845.921	,157
117	027	COMPION MANDED COAL		1645.254	-333
		BED:PC4 20			
118	124	DAK GRT SH		1694.421	8.157
119	544	GRY NASE ES		1704.838	50,417
120	124	DRE GRY SH		1705.776	-938
121	021	COSPON BANDED COAL		1706.984	1,208
		SED: AC3 10 PC3 10			
122	D30	THPLINE COAL		1707,026	.042
.2	027	COMICH BANDED COAL		1708.297	1.271
		SED:PC3 20			

MERIAL HUM: 10:092686-003-3.00

PAGE: 5 OWNER MAME: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FRET

LOGO ! I TYMENT

1 (VA) [2 7: 24000.] Ib-

LINE	3000	ENGLISH	COMENTS	CUMULATIVE	UNIT
****	******	* ***************************	diversional periodensestics		************
124	0.50	INFURE COAL		1708.547	.250
125	114	BLK SH		1708.569	.042
126	030	IMPLIRE COAL		1708.693	-104
127	114	SLX SK		1738.797	.104
128	030	THOUSE COAL		1709.276	.479
129	021	CONSON BANDED COAL		1709.839	-563
130	030	IMPLIE COAL		1709.881	.042
137	114	BLK SM		1710.006	. 125
132	150	COMMON BANDED COAL		1710,402	.396
133	030	IMPLIES COAL		1710,590	.188
134	021	COMMON BAMBED COAL		1710-944	.354
		120:PC3 20			
135	100	UN CUMPIFY		1711.402	.458
136	021	CONTROL BANGED COAL		1711.485	.083
	* 1	BED:PC3 30			
137	774	BLK SII		1711.527	.042
128	021	DOWNEN BANDED COAL		1711.631	.104
139	020	THE COAL		1711.694	.063
140	114	BLE SH		1711.777	.083
141	030	IMPURE COAL		1711,902	-125
	+1	MO:PCS 30			
142	100	SH TUMDIF)		1718.902	7.000
163	325	DEE GRY SH W/SS' STXS		1751-985	13.083

PAGE: I DIMER WAVE: ISLAND CREEK CORPORATION
ALL DEPTHY/THICKNESS DATA IN FEET

LOGO 1 DANSAY 1 DANS 1 2 1: 24000.3 10: 14

IDENTIFICATION SECTION

- 1. GUAD HAVE: VISUT
- 2. STATE LOCATION OF GUAD! VA
- 3. SEALE OF SUAD! 2
- 4. (DE ID #: 3
- 5.1 LANGUEL: SHED RECORD. COMPANT OR AGENCY HAVE: ISLAND CREEK CORP.
- 5. DIVISION OR TRACT!
- 7. DRILL HOLE MUNSER! L-MS
- 8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP.
- P. COMTRIBLITING COMPANY DONN: L-89

COORDINATES DI MOLE OR SECTION

- 12.7 STATE CODE: VAS
- 12.2 STATE PLANE 11/9: 5615426.76
- 12.3 STATE PLANE E/M: 10436206.54
- 15.1 COMPANY GRID W/S: 27595.33
- 15.2 COMPANY GOID E/U: 19081.37

CIVIL DISTRICT WHERE LOCATED

- 17. STATE MADIE MILE LUCATED: YA
- 16. COUNTY: BUCHARAM
- IP. TOWNENIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE:
- 20. GROUND LOCATION DESCRIPTION: KEEN MYN., VA

MENOLE OR SECTION DESCRIPTION

- 11. ELEVATION AT TOP OF HOLE OR SECTION: F 1334.40 DRILL ANGLE 0.
- 22. HETHOD OF ELEVATION BETERMINATION: 5
- 23. HARE OF PERSON LOGGING: JOY
- 24. YEAR DRILLED OR READURED: 1959
- 25. TOTAL DEPTH OF DRILL HOLE: F 1367.000
- 25. ZED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERHOST IDENTIFIABLE BEB! TIL
- 28. DODE OF LOWERMOST IDENTIFIABLE SED: PC2
- 29.1 KIND OF RECORDS C
- 29.2 NETWOO OF LITHU DESCRIPTION: 1(CODE)
- 30.1 UNITS OF HEARINGPENT: 1011 1
- 30.2 NETHODES? OF MEASUREMENT: 117HK 1

PERSON(S) LAST MODIFFING THIS LOG

- ST. PERSON SUBMITTING LOG FOR ENTRY: DEL
- SZ. DATE OF LOO SUMMISSION (NO/DO/TYYY): 2/12/87

LAST MODIFIED BY: DE

DATE: 9/3/1992

USEN DATA: 14.66' HET COAL ". 1.5"

2 OWNER NAME: ISLAND CREEK CORPORATION ALL DEPTHITHICKNESS DATA IN FEET

PAGE:

LOG=1 1 TYMENT 1 TVAJ 1 Z 1: 24000.3 JD= 36

ENGLISH CLINULATIVE COMMENTS LINE CODE CASTNO OR SURFACE 34,000 34.000 2 544 GRY MASS 55 63.157 29.167 5 134 12.250 75.417 DRE BRY SK 4 544 48.250 GRY MASS SS 123.667 5 700 2.583 DIGI 126,250 DRK GRY SH 6 124 125.833 2.503 7 543 CRY SE W/SH STEE 150.166 21,333 8 124 DRK GRY MN 153.583 3.417 9 021 COMMON MANDED COAL 154.500 .917 * REDETIL 20 71L 20 DRK GRY MASS SOY SH 156.333 1.833 10 324 11 544 DRY MASS SS 188,916 32,583 195,083 5.167 12 323 DRK GRY SN N/SS STKE 13 543 199.250 4.167 GRY BS W/SW STKS 14 322 BRK GET SA+INTERSED ST 215,833 16,583 15 124 249.916 34,083 DEK DRY SH 16 021 CIERRO BANDED COAL 250.083 167 # BED:US\$ 10 250.125 17 124 DRK DRY SH .042 18 021 CONNEN BANDED COAL 250.583 .458 19 124 DRK GRY BH 250,771 - 128 20 021 DONNON BANDED COAL 250.875 104 .250 21 124 ORE DRY SN 251,125 COMMON BANDED COAL 251,167 .042 22 021 * MED:US# 10 254.084 2.717 25 124 DRK DRY SH 273.292 19,205 26 544 GRY MASS 58 -375 25 021 CCFANCH BANDED COAL 273.667 * BED: USA 20 USS 20 26 324 280,917 T.250 DRK GRY MASS SOY 3H 20.750 27 544 GRY MASE SS 301,667 28 584 HARD MASS 38 402.084 100.617 * BEDENGA O HOA O COMMON BANDED COAL 402,501 .437 29 021 * BED : GYC 10 30 034 402.509 -104 BORE 1.777 CONNON BANDED COAL 464.376 31 029 . BED: GTC 10 32 544 GRY MASS SS 423. 454 19.458 439,167 15.333 33 114 BLK 5W ONE DRY SH W/SS STES 34 323 478.167 39.000 35 021 COMMON BANDED COMI. 479.000 .833 - SED: MED 10 WSS 10 1,917 36 114 BLE SH 480.917 37 544 GAY MARS SS 506.209 25,292 38 021 COMMON BANDED COAL 506.376 . 167 DS BEN: C38 * 39 114 BLE SH 310.168 3.792 7 UZ1 COMMON BANDED COAL 510.418 250 * BED:MSB 20

TYPING I THOU

1 (VA) (2 1; 24000.) ID= 54

LIME	DODE	EMGLISM	COMMENTS	CUMULATIVE	UNIT
		B-344900010000110011000100010	55.17.26.0 7.55.00 Miles I MARK	40.80	15.00
41	The second second			510,585	-167
62	544 GRY MAS	rs \$5		541.535	30.750
43	124 DAK GRY	SH		548.168	6.833
44	SA4 GRY HAS	R US		583,835	15.667
45	523 DIEK GRY	SH W/65 STRE		590.502	26.667
46	SA4 BRY MAS	3 58		597.002	6.500
47	313 BLK 88	W/35 STES		603.669	5.567
48	MONROS (20)	BANDED CIGAL		604,752	1.083
	" MED : LINP 1	0 W/P 10			
49	THE BLE EN			607.252	2.500
50	544 DRY MAS	\$ 62		533,002	25.750
51	124 DRE GRY	SI		634.419	1-417
52	021 COPPION	SMIDED COM.		636.086	1-667
	" BEDEURP 2	0 EKP 20			
53	116 BLE ST			654.169	18.003
54	344 CRY MAS	3 55		860.002	5-833
95		34		564.502	4.500
36	The second secon	SAMPLED COAL		665.831	1.333
0.0	* BEO; HAP 1	D HMP 50			
57	Name AND AND			663.418	17.503
58		W/SH ETKS		702.835	19.417
59		47 -40 - 7 - 7 - 7		716.002	13.167
60				720,252	6.250
61	The second secon	W/SE STES		752,502	32,250
62	2.7	U/SN STKS		774.210	21,708
63		BANDED COAL		774,235	.125
7	* BED LINE T				4.25
64	The same of the sa			781,377	7.042
65	114 BLE SH			782,377	1.000
66	and the same of th	SAMOED COAL		782.344	.167
-	" BED: WAC 2			5.65.610.67	4.0
67	- A R. W			819,002	36.458
5.0	E. C.	X PED COL		819.085	.643
69	114 DLK SH	1.0- 40-		922.585	3,500
70		MASS SOT SH		851,918	9.333
-	714 BLK SH	Wile 147 34		840,918	9.000
		BARDED COAL		841_835	-917
14	* BEDILIEP 2	and the second of the second o		4111222	
73	William Control State	W LID 20		842,502	.667
74		W/SH SYES		\$60,002	37.500
75		M/SH STEE		893,002	13.000
76		MARS SDY SH		907.085	14.083
77		Tenga sulf an		909,002	1.917
73		DAMPER COAL		911-731	2.729
10	* BED-PC9 1	DANDER COAL		211-1-1	
100		W PW IN		912.064	.323
79		MARK MAY SH		944.002	31.938
80	Mary Mary	MASS BOY SH		944.752	.750
32		EINEN FALL		W45.806	.854
36	# BED:PC9 2	BANDED COAL		11/3:000	.004

PAGES

4 DAMER MARE: ISLAND CREEK CORMORATION ALL DEPTH/THICKNESS DATA IN FEET

LOG-() CANSHT 1 CAN (2 1: 24000.1 10- 14

LINE	0009	ENGLÍSM	COMPERTS	CUMULATIVE	URIT
****	********	- American de la company de la	*********	*********	**********
85	114	BEK EK		945.256	.250
84	124	DRE GRY SN		949.856	4-000
45	324	DRIC GRY MASS 90Y SH		993.669	43,813
86	134	BLK SN		994.627	.958
27	124	DRK GRT SA		999,502	4.875
5.5	113	BLK SH W/COAL STKS		1001-419	1.917
89	124	DEK GRY SH		1002.836	1,417
90	543	GRY SS W/SM STKS		1021,669	18.833
91	124	DAK GRY SH		1021, 711	_042
92	554	XTLIZED MASS 33		1029_003	7.292
	*1	ED:LAA 0			
93	759	XTL12ED IS W/COAL SPARS		1030.003	1.000
94	543	GRY SE WAN ETKE		1032.503	2,500
95	323	DRK GRY SH W/SS STES		1046.086	13.563
96	543	GRY SS M/SH STKS		1093.336	7.250
97	554	KTLIZED MASS SS		1054.003	.667
98	323	DRE GRY SH W/SE STEE		1057.753	3,750
100	554	XYLIZED MASS SS		1060,920	3.167
100	114	TILE SH		1061,087	.167
101	543	CRY SS W/SH STKS		1064,754	3.667
102	323	ORE GRY SH W/SS STES		1066.337	1.583
103	554	XTLIZED WASS SS		1070-504	4.167
104	754	MILIZED STZ PEE COL		1071,129	.625
105	554	XTLIZED MASS SS		1101-004	29.875
106	564	HAND HASE SS		1119.421	18.417
107	768	HARD ST W/COAL BANDS		1119,588	.167
108	564	NAMO MASE SE		1153.671	34.083
109	764	HARD GTZ PER CGL		1170,671	17,000
110	544	HAGD MASS SS		1177.004	6.333
		EDELON G		2.11.25.2	19.00
121	544	GRY MASE ES		1178-004	1,000
112	114	BLE SH		1182.650	4.646
173	021	CONNECT BANDED COAL		1183.713	1.063
7		E0:PC\$ 10			,,,,,,,
114	020	IMPLIRE COAL		1183_817	- 104
115		CONNICH BANDED COMA		1183.680	.063
	. 5	ED:16Q 10			
116	124	DRK SRY SH		1184.255	.373
117	950	COAL WISH STES		1784,432	-177
118	124	BLE SH		1184.682	.250
110	200	COAL W/FYRITE STRS		1186,338	1_656
120		ED: PC5 20		1107 121	nas
124		CDAL W/SII LAYERS		1186.421	.083
121	124	DRK GRY SH		1188,771	1.750
	324	DAS GRY MASS BOY SH		1190-004	1,633
	544	GRY MASS SE		1247,504	57,500
24		CAY SE N/COAL SPARS		1250.171	2.667
	124	DAK GRY SH		1251.671	1.500
-25	150	COMMON BANDED COAL		1251.079	.208
-60	100	ED:PC4 10		1231-077	·end

PAGE: 5 OWNER HANE: ESLAND TREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOGGE I TURNIT 1 IVA)

1 IVA) [2 1: 24000.1 ID= 34

LINE	C00.6	ENGLISH	COMENTS	COMULATIVE	CHEL
4500	*****				*****
127	124	BRK GRY EN		1251.983	-104
128	021	JACO CHOME MONEY		1252,046	-063
129	124	DRE CRY SN		1252 . 129	.083
130	021	COMMON BANDED COAL		1252,337	. 208
131	114	BLE SH		1252_420	. 063
132	.521	CONSIGN MANDED COAL		1253.253	.553
		BED:PCA 10			
133	324	DRE DRY WASS SDY SH		1265,753	12,500
136	027	COAL MISH LAYERS		1266,086	.333
		050 PC+ 20 PC4 Z0		0.50-10-00	
135	324	DRE DRY MASS SAY BY		1302.886	36.802
138	030	THE COAL		1302.930	-042
		AFD :PCS 10		7.7	
137	CSS	COAL W/SOME LAYERS		1302,972	540.
138	021	COMPANY BANDED COAL		1303.368	.396
139	021	COMMON MANDED COAL		1303.431	.065
740	021	COMMON BAMBED COAL		1304.181	.750
		5E0:PC\$ 10			
741	124	DRE CRY BY		1304.223	.042
142	021	COMMEN SANCHED LOCAL		1304,806	.583
		BED:PE3 20			
143	021	COMPAGN BANDED COAL		1305,660	.854
764	030	TROURE COML		1305.723	.063
145	021	COMMON BUNDED CONT		1307.765	2.042
140	114	RLK SM		1307,807	-042
147	030	INSURE COME		1307-974	.167
142	150	COMMON SANDED COAL		1308.037	.063
149	030	INPURE COAL		1308.100	.063
		B20:PE3 20			
150	114	BEK EN		1306.517	.417
151	230	INPURE COAL		1308.559	.042
		BED:PCS 30			100
152	029	DOAL MAPPRITE STES		1308.726	-167
153	030	IMPLIES COAL		1306.768	.042
154	150	CURPION BAMDED COAL		1308.851	.083
155	030	THPUNE COME		1358.955	.104
	*	BEO:PC3 30		2000	
156	124	DRE GRY SH		1318.372	9.417
157	322	DRK GRY SHINTERSED 35		1332,955	14.583
156	124	DAK GRY SH		1340.622	7.567
159	021	CUMPER SAMORED COAL		1540.705	.083
160	124	DINK SAY SH		1343.747	3.042
161	027	COAL WISH LAYERS		1344.289	.542
	197	BED; PCZ 10			
162	021	COMMON BANDED COAL		1344.789	.500
	- *	RED : PC2 10			
163	124	DRE GRY SH		1351.872	7.983
164	544	CRY PASS ES		1360.205	8.533
6	124	DEK CRY SH		1366.955	6.750

PAGE:

T CHANGE ASLAND CHEEK CORPORATION ALL DEPTH/THICKINESS DATA IN FEET

LOG-1 1 TVN97 1 TVAJ (2 1:

J IVAJ (2 1: 24000.1 ID= 37

IDENTIFICATION SECTION

- T. QUAD NAME: VAISHT
- 2. STATE LOCATION OF MUND: VA
- 3. SCALE OF GUAD: 2
- 4. LOS 10 #: 37
- 5.7 INPUBLISHED RECORD. DOMPANY OR AGENCY HAVE I INLAND CREEK COAP
- 5. DIVISION OR TRACT:
- 7. DATLL HOLE WAREA: L-35
- S. CONTRIBUTING COMPANY ON AGENCY: ISLAND CREEK CORP
- 9. CONTRIBUTING COMPANY CONF. L-86

COUNDINATES OF HOLE OF SECTION

- 12.1 STATE CODE: WAS
- 12.2 STATE PLANE M/Sr 3611983.99
- 12.3 STATE PLANE E/N: 10439159.41
- 15.1 COMPANY GRID N/3: 24180.00
- 15.2 DORPANY ON ID E/M: 20130.00

GIVIL DISTRICT WHERE LOCATED

- 17. STATS WHERE HOLE LOCKTED: VA
- 18. COUNTY: SUCNAMEN
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, OF INCORPORATED PLACE:
- 20. GROUND LOCATION DESCRIPTION: KEEN HTM., VA

MENNIE OR SECTION DESCRIPTION

- IT. ELEVATION AT TOP OF HOLE OR SECTIONS F
- 1409.10 DRILL MIGLE O.
- 2. METHOD OF ELEVATION DETERMINATION: 3
- 25. WAVE OF PERSON LOGGING! JOY
- 24. YEAR DRILLED OR MEASURED: 1957
- 25, TOTAL DEPTH OF DRILL WOLE: F 1576.100
- 26. BED CODE REGION IDENTIFIERS HAPP
- 27. CODE OF UPPERMOST IDENTIFIABLE AED: JAW
- 28. CODE OF LOWERNOST IDENTIFIABLE BEG: R/O.
- 29.1 KIND OF RECORDS C
- 29.2 METHOD OF LITTING DESCRIPTION: 11000E)
- 30.1 UNITS OF WEASUREMENT: TIFIF I
- 30.2 HETHOO(S) OF HEASUREMENT: 1(THK)

PERSON(S) LAST MODIFYING THIS LOS

- 31. PERSON SUBMITTING LOG FOR EMTRY: DAL
- 52. DATE OF LOS SUMMISSION (HR/DD/TYYY): 2/13/67

LAST MODIFIED WY: DOL

DATE: 9/3/1992

USEN DATA: 21.34' HET COAL >= 1.3"

2 DAMER NAME: ISLAND CREEK CORPORATION ALL DEPTHYTHICKNESS DATA IN FEET

LOGE () (VHSNT

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1 CVA1 F 2 7: 24000.7 ID= 37

081	LINE	0005	ENGLISH COM	MENTS CUMULATIVE	TEMP
2 021 COMMON RANDED COAL	****	*****			*********
2 021 COMMON RANDED COAL		061	CASTHE ON QUIFACE	32,000	32.000
* #801-JAM 10 JAM 10 3 124 DAK CRY SH 4 564 GRY MASS RS 5 124 OAK CRY SH 6 021 COMMON RANDED COAL 8 244 GRY MASS RS 7 021 COMMON RANDED COAL 8 244 GRY MASS RS 9 130,000 6.500 9 121 DAK CRY SH 10 021 COMMON RANDED COAL 12 JAM 10 JAM		78.0			
3 124 OAR CRY EN				41504	
4 544 GRY MASS SE 79.000 42,167 5 124 ORK GRY SH 91.000 12,000 6 544 GRY MASS SE 121,458 39,467 7 021 COMMON BARDED COM. 121,500 .042 8 544 GRY MASS SE 150,000 6.500 9 124 DRK GRY BH 133,417 3,417 10 021 COMMON BARDED COM. 133,500 .063 12 543 BRY SH WASH STRS 156,500 13,417 13 523 DRK GRY SH WASH STRS 156,500 13,417 14 323 DRK GRY SH WASH STRS 160,000 13,417 15 544 GRY GRY SH WASH STRS 169,600 13,417 16 323 DRK GRY SH WASH STRS 169,600 13,417 16 323 DRK GRY SH WASH STRS 169,600 13,417 17 021 COMMON BARDED COM. 265,500 1.562 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 264,559 72,542 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 301,005 301,205 3,667 18 322 DRK GRY SH WASH STRS 302,000 AND	3			36.833	4.500
124			THE CANALOS	79.000	62.167
S SAME GRY MARKS DS 121,458 39,458 7 021 COMMON BANDED COMM. 121,500 .042 .042 .043	5		100 100 100 100 100 100 100 100 100 100	91.000	12.000
7 021 CCMMON BARGED CDAL 121,500 .042 8 544 GRY NASS 8 130,000 6.500 6.500 7 124 ORK GRY SA 133,417 3.417 133,			15 (2007) 14 (17 T 17 T)	121.458	30,458
8 544 ORY MASS SS 9 124 DRX SRY SH 133.407 124 DRX SRY SH 133.500 1820-711 10 711 10 1724 DRX GRY SH 1725-563				121.500	_042
9 124 DRE ERY SH 10 021 COMMON SAMORD COAL 133.417 3.417 10 021 COMMON SAMORD COAL 135.500 .003 11 724 DRE CRY SH 156.500 .003 11 724 DRE CRY SH 156.500 .15.003 12 543 DRE CRY SH WAS STR5 .15.003 13 124 DRE CRY SH WAS STR5 .15.003 13 124 DRE CRY SH WAS STR5 .15.003 13 125 DRE CRY SH WAS STR5 .15.003 13 125 DRE CRY SH WAS STR5 .15.003 14 325 DRE CRY SH WAS STR5 .25.001 .54.2 17 021 COMMON RANDED DOAL .255.001 .54.2 18 322 DRE CRY SH-INTERRED ST .255.751 18.750 10 544 DRY WAS SS .27.51 17.000 11 UILS SH .257 .15.003 20 DRE CRY SH-INTERRED ST .255.751 17.000 21 124 DRE CRY SH-INTERRED ST .301.085 .3.667 22 034 SCALE .301.085 .3.667 23 021 COMMON RANDED COAL .301.294 .042 24 544 CRY MASS SS .305.002 .3.708 25 544 CRY MASS SS .365.002 .3.708 26 521 COMMON RANDED COAL .301.294 .042 27 124 ORE CRY SH .301.000 .135 28 021 COMMON RANDED COAL .301.294 .102 27 124 ORE CRY SH .301.000 .135 28 021 COMMON RANDED COAL .301.000 .135 28 021 COMMON RANDED COAL .410.140 .105 29 124 DRE CRY SH .410.000 .410.000 .410.000 .135 30 027 COAL MASS ST .410.000 .410.000 .410.000 .135 30 027 COAL MASS ST .410.000 .410.000 .410.000 .135 30 027 COAL MASS ST .410.000 .410.000 .410.000 .410.000 .300 32 544 CRY MASS ST .430.000 .410.000 .410.000 .300 33 134 GRY SS WAS STRS .450.003 .6.000 .300 34 213 DRE REY SH .450.003 .6.000 .300 35 143 GRY SS WAS STRS .450.003 .6.000 .300 36 027 COAL MASS ST .450.000 .400.000 .400.000 .6.000 .300 37 144 ORE CRY SH .450.000 .400.000 .6.000 .400.000 .6.000 .300 38 143 GRY SS WAS STRS .450.000 .6	-			130.000	6.500
10 021	9		170 Y 16 16 7 V 16 T V	133.417	3.417
** REDIRTIL TO TIL TO 11 724 DRK CRY SX 12 543 DRY SR MYSS STRE 13 124 DRK CRY SX 13 124 DRK CRY SX 14 523 DRX CRY SR MYSS STRE 15 544 DRY RARSE SS 17 19 17 22 2.250 18 325 DRS CRY SR MYSS STRE 264.559 72.342 27 1021 CORROR SANDED COAL 28 520-1038 10 URS 10 18 322 DRX CRY SX-INTERRED SE 28 275, 11 10,000 29 114 URL SH 277,412 2.667 20 114 URL SH 277,412 2.667 20 21 CORROR SANDED COAL 28 520-1038 SS 29 107,000 20 107 MASS SS 20 107 MASS SS 20 107 MASS SS 21 007,000 22 544 CRY MASS SS 24 007,522 44,522 25 346 CRY MASS SS 26 321 CORROR SANDED COAL 27 124 ORK CRY SH 28 021 CORROR SANDED COAL 29 124 DRX CRY SH 20 125 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 29 124 DRX CRY SH 20 127 CORROR SANDED COAL 20 128 CORROR SANDED COAL 20 128 CORROR SANDED COAL 20 128 CORROR SANDED COAL 21 SAND ST 22 SAND ST 23 114 SAND 24 SAND ST 25 SAND ST 26 SAND ST 27 CORROR SANDED COAL 28 SAND ST 29 124 ORK CRY SH 29 125 CORROR SANDED COAL 29 126 ORK CRY SH 29 127 CORROR SANDED COAL 29 128 ORK CRY SH 29 129 ORK CRY SH 29 120 ORK CRY SH 29 124 ORK CRY SH 29 125 ORK CRY SH 29 124 ORK CRY SH 29 125 ORK CRY SH 29 126 ORK CRY SH 29 127 ORK CRY SH 29 127 ORK CRY SH 29 128 ORK CRY SH 29 127	-		COMMON SAMPED COAL	133.500	.083
11 724 DRK GRY SH 15 743 DRK GRY SH 15 744 DRK GRY SH 15 745 DRK GRY SH W/SS STRS 17 72 72 CTURUM SANDED DOAL 25 72 DRK GRY SH-HITERSED SE 264,657 72,442 27 DRK GRY SH-HITERSED SE 27 7,412 2,667 28 DRK GRY SH-HITERSED SE 27 7,412 2,667 28 DRK GRY SH-HITERSED SE 28 301,025 3,667 29 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 29 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 29 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 20 DRK GRY SH-HITERSED SE 28 301,025 3,667 29 DRK GRY SH-HITERSED SE 28 301,025 3,667 301,025 3,66	1		SEDETIL 10 TIL 10		
12 543 DET SE WIND STREE 13 124 DER COT SE 13 124 DER COT SE 14 523 DER COT SE WINDS STREE 15 544 DER COT SE WINDS STREE 16 323 DER COT SE WINDS STREE 17 021 CURREN BARDED DOAL 25 DER COT SER STREE 26 4.599 72.432 17 021 CURREN BARDED DOAL 25 DER COT SER SER SE 26 5.501 .562 27 DER COT SER SER SE 27 17 021 CURREN BES 28 294.751 11,000 20 114 DER 10 .522 DER COT SER SER SE 294.751 11,000 20 114 DER 10 .522 DER COT SER SER SE 20 05.667 21 322 DER COT SER SER SE 20 05.667 21 322 DER COT SER SE 20 05.667 21 DER COT SER SE 20 05.667 21 DER COT SER SE 20 05.667 21 DER COT SER SE 20 05.708 25 544 DET MASS SE 26 05.702 DER COT SER SE 27 124 DER COT SER SE 28 05.702 DER COT SER SE 29 125 DER COT SER SE 29 126 DER COT SER SE 29 127 DER COT SER SE 29 128 DER COT SER SE 29 128 DER COT SER SE 29 129 DER COT SER SE 29 120 DER COT SE 29 120 DER CO	44			136.500	3.000
13 124 DRK GRY SN 14 123 DRK GRY SN W/SS STR5 15 544 DRK GRY SN W/SS STR5 16 328 DRK GRY SN W/SS STR5 16 328 DRK GRY SN W/SS STR5 17 021 COMMON SAROED DOAL 255.001 .542 ***EDIJUSS 16 URS 10 18 322 DRK GRY SN-INTERBED SS 10 544 DRK GRY SN-INTERBED SS 10 10 544 DRK GRY SN-INTERBED SS 10 10 544 DRK GRY SN-INTERBED SS 10 11 URS SS 10 12 DRK GRY SN-INTERBED SS 10 10 050 DRK GRY SN-INTERBED SS 10 10 050 DRK GRY SN-INTERBED SS 10 10 050 DRK GRY SN-INTERBED SS 10 051 DRK GRY SN-INTERBED SS 10 052 DRK GRY SN-INTERBED SS 10 051 DRK GRY SN-INTERBED S	7.0		DRY SN W/EN STRE	152.563	16.083
14 523 DRX DAY SM M/NS STR5 15 544 DRX DAY SM M/NS STR5 15 544 DRX DAY SM M/NS STR5 16 325 DRX DAY SM M/NS STRS 17 021 CUMBN MARDED EDAL 255.001542 250.008 DRX DAY SM M/NS STRS 264.597 72.542 250.008 DRX DAY SM M/NS STRS 255.001542 250.008 DRX DAY SM M/NS STRS 255.001542 250.008 DRX DAY SM M/NS STRS 255.001542 250.008 DRX DAY SM M/NS STRS 250.009 TX.17 250.008 DRX DAY SM M/NS STRS 250.007 TX.17 250.008 DRX DAY SM M/NS DAY STRS 25	13		DRK CRY SN	166_000	13.417
15 544	74		DRK GRY SH W/NS STKS	169.667	3,687
16 328 DRC GRY SH W/SE STEE 266.659 72.542 72.5	12	544		191.917	22,250
17 D2 COMMON SANDED DOAL 255,001 .542	10.7		DRE GRY SH W/SE TTES	264_659	72.542
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10 544 EAY PARSE SS 294.751 17.000 20 114 BLK SH 297.418 2.567 21 322 DRK GRY SH-FATERRED ST 301.005 3.667 22 034 BONE BED-LYSE 20 23 021 COMMON BANDED COAL 307.252 167 25 021 COMMON BANDED COAL 409.752 44.527 26 021 COMMON BANDED COAL 409.961 .A38 27 124 ORK GRY SH 410.148 .052 29 124 DRK ERY SH 410.148 .052 29 124 DRK ERY SH 410.252 .104 30 027 COAL M/SH LAYERS 410.460 .188 31 021 COMMON BANDED COAL 410.148 .052 29 124 DRK ERY SH 410.252 .104 30 027 COAL M/SH LAYERS 410.460 .188 31 021 COMMON BANDED COAL 411.669 1.229 32 544 GRY MASS 58 439.336 27.667 33 114 SALK SH 4753 STES 460.003 6.000 35 943 GRY SAS STES 460.003 6.000 36 021 COMMON BANDED COAL 490.670 .417 37 124 DRK ERY SH STES 490.670 .417 38 124 DRK ERY SH 500.007 7.417 38 124 DRK ERY SH 500.007 7.417 39 124 DRK ERY SH 500.007 7.417	100				
20 114 BLE SH 27,418 2.667 21 322 DRK GRY SH-MITERBED ST 301.095 3.667 22 034 BONE	18	322	ORE DRY SHINTERSED SE	283.751	18.750
20 114 BLE SH 20,418 301.085 3.667 21 322 DBK GRY SH-FATERBED ST 301.085 3.667 22 054 BONE 307.252 -167 23 021 COMMON BANDED COAL 307.294 .042 24 544 GRY MASS SS 409.523 46.527 25 021 COMMON BANDED COAL 409.761 .436 25 544 GRY MASS ES 409.762 409.761 .436 26 121 COMMON BANDED COAL 409.761 .436 27 124 ORE GRY SH 410.143 .052 29 124 DBE ERY SH 410.143 .052 29 124 DBE ERY SH 410.252 .104 30 027 COAL M/SH LAYERS 410.400 .135 31 021 COMMON BANDED COAL 410.600 1.229 32 544 GRY MASS 58 410.640 .188 33 021 COMMON BANDED COAL 411.669 1.229 33 144 SLX SH 454.003 14.667 34 313 BLK SH M/SS STES 460.003 6.000 35 145 GRY MASS STE 460.003 6.000 36 021 COMMON BANDED COAL 450.003 6.000 37 124 DBE STES 460.003 6.000 38 145 GRY SS M/SH STES 490.670 .417 39 124 DRK SRY SH STES 500.007 7.417	10	544	CRY TARES 55	294.751	17,000
21 322 DRK GRY SH-FATERHED ST 301.085 3.667 22 034 BONE			OLE SH	297,418	2.667
22 034 BONE			DRK GRY SHOTATERNED ST	301,085	3.667
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24 544 CRY MASS SS 409.523 44.327 26 321 COMMON SANDED COAL 409.961 .436 27 124 ORK GRY SH 410.096 .135 28 021 COMMON SANDED COAL 410.140 .052 29 126 DRY ERY SH 410.252 .104 30 027 COAL MASH LAYERS 410.440 .188 31 021 COMMON RANDED COAL 411.669 1.229 28 8EC:GYC 10 32 544 GRY MASS ST 439.336 27.667 33 114 8LX SH 454.033 14.667 34 313 BLK SH 1/52 STKS 460.003 6.000 35 545 GRY SA WEN STKS 460.003 6.000 35 145 GRY SK WEN STKS 498.253 38.250 36 021 COMMON RANDED COAL 408.670 .417 37 124 DRK GRY SH STKS 508.037 7.417 38 124 DRK GRY SH STKS 508.037 7.417 39 124 DRK GRY SH 57.59 508.037 7.417 39 124 DRK GRY SH STKS 508.037 7.417 39 124 DRK GRY SH 57.59 508.037 7.417 39 124 DRK GRY SH STKS 508.037 7.417 39 124 DRK GRY SH 57.50 508.037 7.417			BED:USB 20		
26 321 COMMON SANDED COAL RED: AYC 10 27 124 ORE GRY SM 410.096 .135 28 021 COMMON BAMDED COAL 410.148 .052 29 124 DRE ERY SM 410.252 .104 30 027 COAL M/SM LAYERS 410.440 .188 31 021 COMMON BAMDED COAL 411.669 1.229 ***BED: GYC 10 32 544 GRY MASS 38 439,336 27.667 33 114 SLX SM 454.003 14.667 34 313 BLK SM M/SS STKS 460.003 6.000 35 343 GRY SS M/SM STKS 469.033 38.250 36 021 COMMON BAMDED COAL 496.670 .417 ***BED: MSB 10 MSB 10 37 124 DRE GRY SM 57KS 500.037 7.417 39 124 DRE GRY SM 522.254 14.167	24	544	GRY MARS SS	365.002	63.708
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27 124 ORE GRY SM 410.096 .135 28 021 COMMEN SAMPED COAL 410.148 .052 29 124 DRE ERY SM 410.252 .104 30 027 COAL M/SM LATERS 410.440 .188 51 021 COMMEN RANDED COAL 411.669 1.229 8ED:GYC 10 32 544 GRY MASS 58 439.336 27.667 33 114 SLX SM 454.003 14.667 34 313 BLK SM 1/52 STKS 460.003 6.000 35 543 GRY SS M/SM STKS 490.253 38.250 36 021 COMMEN RANDED COAL 496.670 .417 8ED:MSS 10 MSS 10 57 124 ORK GRY SM 57KS 500.037 7.417 39 124 ORK GRY SM 57KS 500.037 7.417 39 124 ORK GRY SM 57KS 500.037 7.417 39 124 ORK GRY SM 522.254 14.167	26	021	COMMON SANDED COAL	409.961	.A36
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29 124 DRK ERY SH 410.252 .104 30 027 CDAL M/SH LAYERS 410.440 .188 51 021 CDMMON BANDED CDAL 411.669 1.229 BED:GYC 10 32 544 GRY MASS ST 439.336 27.667 33 114 SLX EN 454.003 14.667 34 313 BLK SH M/SS STES 460.003 6.000 35 343 GRY SS W/SH STES 460.003 6.000 36 021 CDMMON BANDED CDAL 498.670 .417 BED:MSSB 10 MSB 10 37 124 DRK GRY SH 500.007 38 343 GRY SS W/SH STES 508.007 7.417 39 124 DRK GRY SH 508.007 7.417	27	124	ORE GRY SH	410.096	-135
30 027 CDAL M/SH LAYERS 410.440 .188 31 021 CDMMCH RANDED CDAL 411.669 1.229 8ED:GYC 10 32 544 GRY MASS 57 439.336 27.667 33 114 8LK 8N 454.003 14.667 34 313 BLK 8H M/SS STKS 460.003 6.000 35 543 GRY SS W/SH STKS 498.253 38.250 36 021 CDMMCH RANDED CDAL 498.670 .417 8ED:MSS 10 MSS 10 37 124 DRK SRY SH 500.670 2.000 38 543 CRY SS W/SH STKS 508.097 7.417 39 124 DRK GRY SH 508.097 7.417 39 124 DRK GRY SH 522.254 14.167 40 021 CDMMCH RANDED CDAL 522.504 .250	28	021	COMMON BANDED COAL	410_148	-052
\$1 021 CUMMON RANDED COAL \$2 544 GRY MASS \$8 \$2 544 GRY MASS \$8 \$3 114 SLX SN \$4 513 BLK SN W/SS STKS \$4 60.003 6.000 \$3 543 GRT SS W/SN STKS \$6 021 COMMON RANDED COAL \$3 545 GRY SN W/SN STKS \$6 021 COMMON RANDED COAL \$3 545 GRY SN W/SN STKS \$6 021 COMMON RANDED COAL \$3 545 GRY SN W/SN STKS \$6 021 COMMON RANDED COAL \$4 500.670 2.000 \$8 543 GRY SN W/SN STKS \$5 00.670 2.000 \$8 543 GRY SN W/SN STKS \$6 02.254 16.167 \$6 021 COMMON RANDED COAL \$5 02.254 16.167	29	126	DRY ERY SH	410.252	
\$1 021 COMMON RANDED COAL **BED:GYC 10 \$2 544 GRY MASS \$8 \$3 144 SLX SN \$439.336 27-647 \$3 144 SLX SN \$454.603 14.667 \$4 513 BLK SN N/SS STES \$460.003 6.000 \$3 543 GRT SS N/SN STES \$698.253 38.250 \$6 021 COMMON RANDED COAL **BED:MSS 10 MSS 10 \$7 124 DRK GRY SN \$00.670 2.000 \$8 543 GRY SS N/SN STES \$00.670 2.000 \$8 543 GRY SN N/SN STES \$00.037 7.417 \$9 124 DRK GRY SN \$00.037 7.417 \$9 124 DRK GRY SN \$00.037 7.417 \$9 124 DRK GRY SN \$502.254 14.167 \$522.504 .250	30	027	COAL WISH LAYERS	410.440	188
32 544 GRY MASS 38 439.336 27.667 33 114 84X 8N 454.603 14.667 34 313 BLK SH N/SS STKS 460.003 6.000 35 543 GRT SS N/SH STKS 498.253 38.250 36 U21 COMMON RANDED COAL 498.670 .417 ** BED/MSR 10 MSR 10 37 124 ORK GRY SH 500.670 2.000 38 343 GRY SS N/SH STKS 508.037 7.417 39 124 ORK GRY SH 502.254 14.167 40 021 COMMON RANDED COAL 522.504 .250 ** BED:MSR 20 MSR 20	39			411.669	1.229
33 114 8LX 8N			aeo:gyc 10		
34 313 BLK SH M/SS STKS 460.003 6.000 35 543 GRT SS W/SH STKS 498.253 38.250 36 021 COMMON RANDED COAL 498.670 (417 * BED/MSS 10 WSS 10 37 124 ORK GRY SH 500.670 2.000 38 343 GRY SS W/SH STKS 508.037 7.417 39 124 ORK GRY SH 508.037 7.417 39 124 ORK GRY SH 508.037 7.417 40 021 COMMON RANDED COAL 522.504 .250 * BED:HSS 20 MSS 20	32	544	GRY MASS 38	439.336	27.667
35 543 GRT SS W/SN STES 498.253 38.250 36 021 COMMON RANDED COAL 498.670 .417 * BED/MSR 10 MSR 10 37 124 DRK GRY SN 57K5 500.670 2.000 38 543 GRY SS W/SN STK5 508.097 7.417 39 124 DRK GRY SN 57K5 508.097 7.417 40 021 COMMON RANDED COAL 522.504 .250 * BED:MSR 20 MSR 20	33	114	STX TA	454.C03	15.667
36 021 COMMON RANDED COAL 498.670 .417 ** BED MSB 10 MSB 10 37 124 DRK GRY SH 500.670 2.000 38 543 CHY SB W/SH STKS 508.037 7.417 39 124 DRE GRY SH 522.254 14.167 40 021 COMMON RANDED COAL 522.504 .250 ** BED:HSS 20 MSB 20	34	313	BLK SH W/SS STKS	460.003	6,000
* BED/HSS 10 MSE 10 37 124 DRK ERV SH 500.670 2.000 38 543 CRY SS M/SM STKS 508.037 7.417 39 124 DRE DRY SH 522.254 14.167 40 021 COMMON RAMDED COAL 522.504 .250 ** BED:HSS 20 MSS 20	35	543	GRY SS W/SH STES	498.253	38.250
37 124 DRK SRY SH 500.670 2.000 38 343 CRY SN 4/3N STKS 508.037 7.417 39 124 DRE GRY SN 522.254 14.167 40 021 COMMON MANDED COAL 522.504 .250 ** BED: HSS 20 MSS 20	36	021	COMMON BANDED COAL	498.670	417
38 343 CHY 58 M/3M STAS 508.037 7.417 30 124 ORE GRY 5M 522.254 14.167 40 021 COMMON MANDED COAL 522.504 .250 # BED:HSB 20 MSB 20			BED (MSB 10 MSB 10		
39 124 ORE DRY SH 522.254 14.167 40 021 COMMON MANDED COAL 522.504 .250 * BED: HSB 20 MSB 20	37	124	DRK SRY SH	500,670	
40 021 COMMON MANDED COAL 522,504 .250 * BED: MSB 20 MSB 20	38	343	CRY 58 W/SM STKS	508.037	7.417
40 (A21 COMMON MANDED COAL 522,504 .250 * BED: MSB 20 MSB 20	39	124	ORE GRY SH	522.254	14.167
		200	CONSTON BANGED COAL	522,504	.250
-1 324 DAY GAT MASS SOY SH 545 337 22.835			BED: HSB 20 MSB 20		
	.1	324	DEE GRY MASS SOY SH	545,337	22.835

PAGE: 3 CHARA NAME: THLANG CREEK CORPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LOG-(1 CWENT

1 EVAT F 2 1: 24000.) ID= 37

				CUMULATIVE	UKLIT	
	*****		*********		********	
	544	ORF WARE OF		587.504	42.167	
	543	CDY MASS SS		594.004	8.500	
100	323	DRY SS W/SN STKS		615.004	21.000	
	021	DING GRY SH WAS STEE		615.337	.333	
42	- ME1	BEBLURP TO UNP 10		013-334	1,333	
164	323	DRE GRY SW W/SE STEE		621.837	5.300	
47	100	ULY MASS 35		628.004	5.167	
45	-70	GRY \$5 W/COAL SPARS		644_004	16:000	
40		GRY MARS SS		645.006	1.000	
50	7 -57.5	DRK ERY EN		846.004	1.000	
51		COMMON BENDED COAL		647,571	1,667	
4		SED:UNP 20 UNP 20		Part Trail 4	14907	
52	0.145	DRE URY SH W/25 STES		655,338	7.667	
51	-	CRY SS W/SM STKS		680.005	24.667	
54	100	DARK CALA BIT		684,005	4.000	
35	440.00	DRK DRY SH M/CDAL STRE		584.838	,833	
96	1000	CONNON MAKENTO COAL		686,255	1,617	
24	467	DEDUMP IN HIP 10		560,232	*****	
57	774	BLE SH		687,009	.750	
58		CAY SE WAN STES		726.838	39.833	
59	0.00	DLX SH		744.005	17,167	
50	1 4 5 5 5	BLK SH W/39 STKS		782,130	38.125	
61		CONNUN BANDED COAL		763,838	1,798	
-		AEDISMC 10		10.000,000		
62	4.44	BLE SR W/COAL STER		784.965	1.125	
63		COMMON BANDED COAL		785.046	.083	
64	1250	BLY SH W/COAL STKS		785.588	.542	
65	4.74	COME W/SH STXS		786.005	.417	
- 72		BED: UPC 10		5300,385	Sept. 6	
66	make a	DUK GRY SK+1NTERBED GI		795.838	12,833	
67	033	SCHE W/COAL STAN		799.005	.167	
		BED: LINE 20				
68	121	COMPANY SANDED COAL		799.588	.583	
		BED: WRC 20				
69	124	DRK GRY SR		801.838	2.250	
70	544	DRY MASS SE		825_938	24.000	
71	124	DRE GRY BR		850.871	4,833	
72	543	GRY 26 W/SN STKS		845.568	14.917	
73	126	DAK GRY SII		852.005	6.417	
74	034	NOME		852.058	, 083	
		960 :T No. 50				
75	021	COMMON BANDED COAL		853.630	1.142	
		BED=LHP 20				
76	123	DRK SHY SH W/COAL STRS		853,922	.292	
77	124	DRK GRY SH		654.339	-417	
78	322	DRE CRY SN+1WTEABED SS		885_004	31.667	
79	125	DEC GET BH W/88 STES		910,173	24.167	
50	021	COMMON BANDED COAL		\$11.173	1.000	
		BED:209 10 PCV 10				
31	123	DRK GRY SN W/COAL STES		911,306	.333	

PAGE:

LOG=E 1 DVNSVT

1 IVAL E 2 1: 24000.1 ID= 37

LINE	000	E ENGLISM	COMMENTS	COMULATIVE	UNIT
****		*** ***********************************	*********	**********	
82	323	DRE GRY EN W/SS STEE		936.173	24.667
83	322	ORK GRY SHIPTEREED SS		944,006	9,633
84	124	DAK GRY SH		955_089	9.083
85	021	COMMON BANDED COAL		955.589	.500
		* BED:PC9 20 PC9 20			
66	323	DRE GRY SH W/SS STES		986.006	30.417
87	322	DRIC GRY SH+INTERRED SE		1063.006	77,000
8.5	564	HARD MARS 55		1151,423	88.417
		BEO; LOA O			
89	314	BLK MASS SOY SH		1155,756	4.333
90	764	HARO GTZ PES CGL		1155-006	.250
91	754	ATLIZED DTZ PED COL		1176.006	20-000
92	312	BLK SN W/99 STKS		1178.006	2.000
93	754	KTLIZED OTZ PEB CSL		1178,339	.333
74	564	HARD MASS SE		1208.589	30.250
95	754	XTLIZED OTZ PER COL		1209.589	1.000
		BED:LOA D			
94	544	GRY WASE SS		1210.422	-833
97	315	MAIX SIMINTERNED US		1216,005	5-583
98	114	BLY SH.		1218.713	2.705
99	021	COMMON BAMOED COAL		1219,817	1.704
100		* BED:PC5 10		17-8 100	1.55
100	124	DRE DRY IN		1220.025	-208
107	021	COMMON BANDED COAL		1220,045	.021
	200	950:PCS 10		AND 7 16 7	- E.
102	124	DRE GRY SW		1221.442	1,396
103	021	COMMON BANGED COAL		1221 .755	.313
200	44.	0201PC\$ 20		DES. 3.2	1,423
10.0	034	BOME		1221.807	.052
105	021	COMMON BANDED COAL		1224.005	2,198
100	344	MED:PC5 20		San etc.	6.000
196	14.4	DIK SAY SH		1227.336	3,333
107	255	DAK GRY SHINTERBED SS		1264.171	36,833
108	324	DRK CAY MASS EDV SM		1266.421	2.250
100	564	GRY MASS 38		1267.838	1.517
110	4.55	ORK GRY SHINYERBELL SS		1271.838	4.000
	313	BCK SH W/SE 37K2		1276.526	4.688
112	021	COMMON BANDED COAL		1276.984	.458
		BEDIPCA ID PCA VO		****	***
	124	ORK GRY SH		1277.026	-042
114	7.7	COMMON BANDED COAL MEDISCA 20 SCA 20		1282.505	5,479
200		DED IN ST. ED FOR EA		****	44 756
	543	GRY SS W/SH STES		1300.130	17,625
116		DRE GRY SH		1300.922	-792
111	030	IMPURE COAL		1300.964	-042
		* BED:PCS 10		(885	3 444
112	021	COMMON BANDED COAL		1205-517	1.250
		The state of the s			223
	124	DRIC GRY SH		1302,360	-146
.20	114	BLK SH		1302.381	.021

PAGE: 5 OWNER HAME: ISLAND CREEK COMPORATION
ALL DEPTH/THEORNESS DATA IN FEET

LOG-I I CWENT

1 IVAL (2 1: 24000.] 10- 37

山族	0005	ENGL (S)	CONNENTS	COMPLATIVE	UNET
		v 10-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	******** ************	**********	
121	021	CONNEN BANDED COAL		1302.485	. 104
		BEDIPCS 20			
122	ONO	THERME COAL		1302-568	.983
123	021	COMMON MAKED COAL		1303.031	1.063
124	030	INFURE CORL		1303.756	.125
125	750	COMMON MANGED COAL		1304.569	.813
126	124	DEK CRY SH		1304.590	.021
127	021	COMMICSI BANDED COAL		1303.632	1.042
128	030	IMPURE DOLL		1305.736	-104
129	021	CONNICH BANDED COAL		(305.924	.166
		SED: PC3 20			
130	322	DRK GRY SIN-LUTERSED ST		1315.757	9.633
131	543	GRY SS W/SH STEE		1332,757	17.000
132	124	DAK GEY SH		1336,090	3,333
133	021	CONSIGN DARBED COAL		1336.132	.042
	29	BED:PC2 10 PC2 10			
134	124	DAK ERY EN		1340.132	4.000
135	020	COAL		1340.340	-208
		BED :PC2 20 PC2 20			
136	124	DAK CHA SM		1343.090	2.750
137	127	DRW GRY FIRECLAY		1347-007	3.917
130	322	DRE ORT EN+INTERED SA		1357.007	10,000
139	322	DRK GRY SH-INTERSED 53		1388,007	31.000
140	163	HARD SE W/SH STES		1435,007	47,000
141	560	HARD SE		1467-507	52,500
142	544	GRY NASS SE		1512.840	25.333
145	323	DRE GRY SH W/SS STICS		1518.007	5.167
164	544	CRY HASS SE		1545.257	27.250
145	126	DRK GRY SN		1555,007	9.750
145	544	GRY MASS 68		1562.507	7.500
147	322	DEE GAY SHEINTERSED 34		1567-174	4.667
148	124	DRK GAY SH		1571.591	4.417
142	164	TED SH		1574.008	4.417
		BED : N/G D			

LUG-I ? IVMSHT 1 TVAL (2 1, 24000.1 10= EERIAL NUM:101092686-003-3.00

IDENTIFICATION SECTION

- T. GUAD NAME: YESHT
- 2. STATE LOCATION OF GUAD: VA
- 3. STALE OF BUADE 2
- A. LOG to de
- 5.1 UMPUREISMED RECORD. COMPANY OR AGENCY MANE: ISLAND CREEK CORP.
- 5. DIVISION OR TRACTE
- 7. DRILL WOLE MINNER! L-87
- 8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CHEEK CORP
- W. CONTRIBUTING COMPANY DONN'S L-87

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE W/S: 3614063.73
- 12.3 STATE PLANE E/N: 10430760.27
- 15.1 COMPANY GRID N/9: 26025-00
- 19.2 COMPANY CAUS E/4: 11675.00

CIVIL DISTRICT WHERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 18. COLMTY BUCHANAM
- 19. TOWNSVIP, MAGISTERIAL DISTRICT, OR INCOMPORATED PLACE:
- 20. GROUND LOCATION DESCRIPTION: EREN MTH., VA

MEHOLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE OR SECTION: 2104.90 DRILL ANGLE
- 22. HETHOD OF ELEVATION DETERMINATION: 9
- 23. NAME OF PERSON LOGGING: JUY
- 24. TEAR DRILLED OF MEASURED: 1958
- 25. TOTAL DEPTH OF DEILL HOLE: F 2311.200
- 26. DED CODE REGION IDENTIFIER: NAPP
- 27. CODE OF UPPERMOST IDENTIFIABLE BED: MAIN
- 28. CIDE OF LOWERHOUT IDENTIFIABLE SED: PCZ
- 29.1 KIND OF RECORD: C
- 29.2 NETHOD OF LITHO DESCRIPTIONS
- 30.1 UNITS OF MEASUREMENT: 1 LEFF 1
- 50.2 METHOD(S) OF HEASLIREMENT: TITHE !

PERSON(S) LAST MODIFYING THIS LOG

- 31. PERSON SUBMITTING LOG FOR ENTRY: DGL
- 32. DATE OF LOG SUMPLESION (MAYOD/YYYY): 2/18/87

LAST MODIFIED BY: DEL

DATE: 9/3/1992

USER DATA: 14.47" MET DOAL == 1.5"

LOG-[1 (VASAT 2 (VA) [2 7: 24000.] (DE 50

LIME CO	RE ENGLISH	COMMENTS CLIMULATED	E LINET
		71 51 51 51 51 51 51 51 51 51 51 51 51 51	
1 007	CASING OR SURFACE	25,000	
2 544	GRT MASS 59	36_08	
3 324	DRE GRY HASE SDY EN	41.50	10000
4 322	DAK GRY SH+INTERBED SS	63.50	2 2 2 2 7
5 324	ORK GRY MASS SOT SH	116.917	
9 DSD	COAL	117,417	
7 324	DRE GRY MASS SOY SH	118,834	264
8 544	GRY MASS 38	136,001	1000-0
9 322	DEK GRY SH-INTERBED 98	156.001	
10 324	DUK CHY MASS SOY EN	160.334	51110
17 114	BLK \$H	168.397	
12 028	COAL WITH STICS	169.001	1.0
140 510	" DED:HAM 10	109.001	.604
13 021	COMMON STATUTED COAL	170,668	90.442
	DED:MRN 10	110-000	1_667
14 524	DRE GRY MASS SOY ON	199 200	
15 543	GRY SS W/BH STED	171.418	.750
16 344	GRY MASS SS	163.501	12.083
17 124	OHK BHY SH	269.334	85_833
15 021	COPPICH BANDED TOTAL	269,917	583
	acception to war to	271.334	1,417
19 749	GRY SO MICCAL SPARS	176 402	245
20 544	ERY HASS SE	271.501	.167
21 021	COMMON BANDED COAL	320.668	49.167
	NEO: 500 0	320.751	.083
22 749	CET SO M/COAL SPARS	The one	4.000
23 324	DAK BRY NASS BOY SH	324.001 324.293	3.250
150 m	COMMON RANDED CONL		.292
5 114	DER ER	324.376	.083
6 021	COMMON BANDED COAL	324.459	,083
7 326	DRK DRY HASS SOY SH	326.834	.375
8 021	COMMON BANDED COAL	325.251	.417
9 114	GLK SH	326.158	.917
0 027	COAL W/SH LAYERS	376.293	.125
1 021	COPPER BANDED COAL	326.439	-146
2 116	BLK SH	327.127	.688
3 021	COMMON BANDED COAL	327_169	.042
6 030	IMPLIE COAL	327.336	-157
114	BLK SH	327.440	,104
6 020	COM.	327.919	.479
7 174	BLK SH	328-986	.167
8 021	CONTON RANDED COAL	329,044	-958
114	OLK SN	329.086	.042
256	ORK GRY MASS SOY SH	329.588	.500
TON	BLK SH W/COAL STKS	334.003	4.417
124	DRK BRY SH	334_170	-167
021	CONSIGN BANDED COAL	336.378	2.208
124	DRE GRY SH	334.586	. 204
021	COMMON BAMPED COAL	337_419	.833
124	DAK GRY SH	337.544	.125
	A 4444	339,127	1.363

3 DANER MANE: ISLAND CREEK CORPORATION ALL BEPTH/THICKMESS DATA IN FEET

PAGE:

LDC-1 1 TVESHT 1 TVAL L 2 1: 24000.1 10-

TIME	500€	EHGL I SH	COMMENTS	CUMULATIVE	UNIT
2.44	3.		******	0.000 0.000	14.14.14.14.14.14
47	See See	CONTROL EARGED COAL BED:SPO 0		339,335	-208
48	1.50	NEK GET SH		354.335	15.000
49	544	GRY MASS SS		390,002	35,667
50	323	DAK CAY SH W/SS STKS		433,169	43.147
51	021	GOWNON BANDED COAL		433,586	.417
52	124	DRK GRY SH		456.003	22,417
33	544	GRY MASS SS		674,003	18-000
54	124	DEK GEV SA		583.253	109.250
55	543	GRY 35 H/SH STKS		602.636	19.583
56	323	DRK GRY SH W/SS STKS		619,919	17.043
57				620.336	
51	7	COMMON BANDED COAL		GEU. 330	-417
	544	BED:KEN 5 KEN 5		444.500	** ***
38		GRY MASS SE		641.503	21.167
50		DAE GRY MASS SDY SN		643.003	1.500
60	021	COMPAN BANDED COAL		443.834	.833
-		SED:KEM 70 KEW 10		***	
61	326	DRK GRY MASS SOY SH		545.636	2.000
62	544	QRY WASS SE		702.086	56.250
43		DAK GRY MASS SEY CH		746.503	44.417
64	021	COMMEN BANDED COAL		747,003	,500
100	100	BED:ALY TO ALY TO		0.40 (41)	90000
65	324	DRE GRY MASS SOT SN		750.920	3.917
16	355	ORK ORY SH+1MTERBED ER		775-507	24.567
67	114	SLK SH		774-254	.667
68	021	COMMON BYROED CONT		277,327	,917
-		SED TAY OF TAY OF		200	200
69	114	BLK SH		780.504	3.333
70	030	INPLATE COAL		780.671	.167
71	114	ELX SH		781-254	-563
72	344	GRY MASS SS		792,254	11.000
73	124	DRK CRY SR		800-587	17.333
74	114	BLK SH		820.254	10.567
75	325	DRIC GRY SH-INTERNED ST		528.254	8,000
75	544	GRY MARS ES		836.004	7.750
77	543	TRY 35 U/SII STEE		854.504	16,500
15	123	DRIK GRY SH M/COAL STKS		854-671	167
79	021	COMMON BANDED COAL		856.588	1.917
	* 1	SED : RVW 20 RVW 20			
80	174	BLE SM		858.255	1-567
81	021	COMMON BANDED COAL		858.338	.083
82	714	BLK SH		858.630	.292
83	150	COMMON RANDED COAL		858.797	.167
84	327	DRK GRY SDY FIRECLAY		861.255	2.458
85	150	COMMON BANDED COAL		861.338	.083
86	324	ORK GRY MASS BOY SH		865.171	1.833
87	030	IMPURE COAL		863.463	.292
88	324	DRE GRY MASE SOY BN		869.505	5.042
39	544	GRY MASS SS		909-005	39,500
90	775	BLK SA		952,172	43.167

LOG-L I TYMSHT

1 IVAL (2 1: 24000.1 10- 50

91 324 DRIX CALY MASS BOY SH 20 21 CONNON MARRIES BOY SH 32 22 DRIX CALY MASS BOY SH 33 324 DRIX CALY MASS BOY SH 33 324 DRIX CALY MASS BOY SH 34 344 DRIX CALY MASS BOY SH 35 124 DRIX CALY MASS BOY SH 35 124 DRIX CALY SH 36 324 DRIX CALX SH 36 325 DRIX CALX SH 37 32	LINE	CODE	ENGL ISH	COMMENTS	DIMULATIVE	UNET
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96 GZ1 DEMOND RANDED COAL 999,815 .563 *** #EDJAN ZO** 97 124 DAK DKY SN 998,881 .083 98 6Z1 COMMON RANDED COAL 999,860 .979 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *					20000	
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97 124 DAX DRY SH 98 021 CCRANN BARRED COAL 98 021 CCRANN BARRED COAL 99 126 DAX BRY SH 100 544 DRY MARE SE 1005.059 127.500 102 544 DRY MARE SE 1025.05 179.583 104 114 BLK SH 1192.672 47.667 105 021 DRWEND BARRED COAL 1107.543 1109.583 106 124 DRY GRY SH 107 544 DRY GRY SH 107 544 DRY MARE SE 1107.583 5.583 108 323 DRX DRY SH WASE STEX 1107.584 1109.583 5.583 109 114 DRY DRY SH WASE STEX 1107.583 1109.583 5.583 109 115 DRY DRY SH WASE STEX 1107.583 1109.583 5.583 110 124 DRY DRY SH WASE STEX 1107.583 1109.583 5.583 111 124 DRY DRY SH WASE STEX 1107.583 1109.583 1.683 111 124 DRY DRY SH WASE STEX 1107.583 1.683 111 124 DRY DRY SH WASE STEX 1107.583 1.683 111 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 1107.585 1.625 113 124 DRY DRY SH WASE STEX 114 125 DRY DRY SH WASE STEX 115 126 DRY DRY SH WASE STEX 116 127 DRY DRY SH WASE STEX 117 128 DRY DRY SH WASE STEX 118 124 DRY DRY SH WASE STEX 118 125 DRY DRY SH WASE STEX 118 125 DRY DRY SH WASE STEX 118 126 DRY DRY SH WASE STEX 118 127 DRY DRY SH WASE STEX 118 127 DRY DRY SH WASE STEX 118 128 DRY DRY SH WASE STEX 118 129 DRY	96	100			998.815	.563
99 021 COMPON BANDED COAL * SETULIAN 20 * SETULIAN 30 * SETULIA	0.0		The state of the s		****	1000
### SEU-JAM 20 ***PT 124** DAK** SEY *** 1001-256** 1.366** ***PT 124** DAK** SEY *** 1006-089** 4.833** ***PT 124** DAK** SEY *** 1006-089** 4.833** ***PT 124** SEY MCGAL SPARS** 1025-025** 1.833** ***PT 125** SEY SEY WCGAL SPARS** 1025-025** 17.583** ***PT 126** SEY	1,001					1.00
100 544 DAY BAY SH	98	262			999.860	.079
100 544 DET MARE SE	-		201-4-8-4-			2-4
101 749 CHY ST W/COAL SPARS 102 544 CHY 1865 SS 103 749 CHY 1865 SS 103 749 CHY 1865 SS 104 114 BLK SH 105 021 COSMON BANDED COAL 105 021 CHY MASS SS 106 124 BKK SH 105 021 CHY MASS SS 106 124 BKK SH 105 021 CHY MASS SS 106 124 BKK SH 1105 025 CASH 107 544 SHY SH 1105 025 CASH 107 544 SHY SSS 1105 025 CASH 107 544 SHY SSS 1105 025 CASH 107 544 SHY MASS SS 1105 025 CASH 107 144 SLK SH 1107 021 COSMON BANDED COAL 1107 124 CASH CASY SH 1107 125 CASH 1107 126 CASH CASY SH 1107 127 CASH 1107 128 CASY SH 1107 129 CASH 1207 120 CAS	7.7		Control of the Contro			
102 544 GRY THASE SS 1035.025 1.835 103 749 EW W/CDAL BPARE 1035.005 17.582 104 144 SHL SIM 1102.072 47.667 105 021 CEMBON BANGED DOAL 1105.255 .583 ***BEDITE 20 711 20 107 544 GRY SM 1104.005 .750 107 544 GRY NASE SS 1109.588 5.583 108 323 ORE GRY SM M/SE STEE 1109.588 5.583 108 323 ORE GRY SM M/SE STEE 1109.508 1109.305 2.917 110 021 COMMON BANGED COAL 1199.338 .833 ***BEDIUSS 10 USE 10 111 124 ORE GRY SM 1195.255 3.917 112 544 GRY MASE SS 1209.505 14.250 113 124 ORE GRY SM 1214.089 1215,922 4.417 114 021 COMMON BANGED COAL 1215,922 4.417 114 021 COMMON BANGED COAL 1215,922 4.417 115 124 ORE GRY SM 1216.256 2.167 116 122 ORE GRY SM 1255.588 1250.255 4.833 117 323 ORE GRY SM 1255.588 1250.255 4.833 118 124 ORE GRY SM 1255.588 1255.588 105.533 119 544 MARD MASE SE 1255.588 1355.588 105.533 110 124 ORE GRY SM 1255.588 1355.588 105.533 110 124 ORE GRY SM 1355.588 1365.586 .917 125 544 GRY MASE SE 1366.755 10.167 125 544 GRY MASE SE 1366.755 10.167 126 544 GRY MASE SE 1366.755 10.167 127 544 GRY MASE SE 1366.755 10.167 128 124 DRY MASE SE 1366.755 10.167 127 544 GRY MASE SE 1366.755 10.167 128 124 DRY BRS SE 1469.771 .333 126 126 DRA GRY SM 1415.588 3.021 127 028 COAL M/SM STEES 1440.671 .500 128 124 DRY SRT SM 1440.671 .500	100					
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104 114 BLK SH 1102,672 47.667 105 021 CONSIGN BANGED COAL 105,233 .583 **BEDITL 20 71L 20 106 124 DRK GRY SH 1100.5 107 544 GRY SH WISE STKE 1107,583 78.000 109 114 SLK SH 1107,583 78.000 109 114 SLK SH 1197,535 2.917 110 021 CONSON BANGED COAL 1197,338 .833 **BEDIUSS 10 USS 10 111 124 GRK GRY SH 1120 112 544 GRY MASK SS 120 113 124 DRK GRY SH 1121 **BEDIUSS 20 USS 20 115 124 DRK GRY SH 1213,922 4,417 116 021 CONSON BANGED COAL 1213,922 4,417 **BEDIUSS 20 USS 20 117 323 GRK GRY SH HINTERSED SS 1234,089 126,256 117 325 GRK GRY SH WISE STKES 126,568 .017 118 124 DRK GRY SH 1255,588 105,533 119 544 MAND MASK ST 1255,588 105,533 110 545 MAND MASK ST 1255,588 105,533 **SED:JROA 0 120 021 CONSON BANGED COAL 1555,567 .083 **SED:JROA 0 121 544 GRY MASK SS 5 1366,755 10,167 122 544 GRY MASK SS 5 1366,755 10,167 123 124 GRY MASK SS 5 1366,755 10,167 124 524 GRY MASK SS 5 1366,755 10,167 125 124 DRK GRY SH 10 125 544 GRY MASK SS 5 1366,755 10,167 126 544 GRY MASK SS 5 1366,755 10,167 127 544 GRY MASK SS 5 1366,755 10,167 128 124 DRK GRY SH 10 125 124 DRK GRY SH 10 126 544 GRY MASK SS 5 1439,836 21,250 127 028 COAL MISH STKS 1440,671 .500 128 124 DRK SRT SH 1440,671 .500 128 124 DRK SRT SH 1440,671 .500 128 124 DRK SRT SH 1440,671 .500					77.4 7.5	
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109 114 SLK SM 1193.505 Z.977 110 021 CONNOW BARDED COAL 1191.336 .833 1101.336 10 USB 10 111 126 CAR DAY SM 1125.525 3.917 112 544 GRY MASS 99 1207,505 14.250 113 124 DRK GRY SM 1121.922 4.417 114 021 CONNOM BARDED COAL 11214.089 .167 116 322 DRK GRY SM 1216.256 2.167 116 322 DRK GRY SM 1216.256 2.167 117 323 DRK GRY SM 1250.255 4.853 117 323 DRK GRY SM 1250.255 4.853 110 564 HARD HARS SS 1250.588 105.333 110 565 HARD HARS SS 1250.588 105.333 110 565 HARD HARS SS 1250.588 105.333 110 565 HARD HARS SS 1250.588 105.333 110 566 HARD HARS SS 1250.588 105.333 110 567 1.083 110 568 100 100 100 100 100 100 100 100 100 10						
110 021 COMMON BANDED COME BEDIUSS 10 USE 10 111 126 ORK DAY SII 112 544 SAY MASE SS 1207,505 14-250 113 124 DRK GRY SM 1214,089 -167 BEDIUSS 20 URE 20 1214,089 -167 BEDIUSS 20 URE 20 1216,256 2.167 115 322 DRK GRY SM 1216,256 2.167 116 322 DRK GRY SM 1216,256 2.167 117 323 DRK GRY SM 1250,255 4.853 117 325 DRK GRY SM 1250,255 4.853 119 564 HAND HARS SE 1250,97A 0 120 025 CORRON BANDED COAL 1216,075 10 OKC GRY SM 1255,677 .083 122 544 GRY MASE SE 125 544 GRY MASE SE 125 544 GRY MASE SE 126 CORRON BANDED COAL 127 564 HARD NARS SE 128 124 DRK GRY SM 129 025 CORRON BANDED COAL 121 564 HARD NARS SE 125 124 DRK GRY SM 125 545 T. 229 126 544 GRY MASE SE 127 COBB COAL MASE SE 128 124 DRX GRY SM 129 025 CORRON BANDED COAL 120 025 CORRON BANDED COAL 120 025 CORRON BANDED COAL 121 564 DRX GRY SM 1416,556 1.229 125 124 DRX GRY SM 1418,586 2.1.250 126 127 OZB COAL MASE SE 127 OZB COAL MASE SE 128 134 DRX SRT SN 1440,671 .333			The state of the s		2 2 3 3 4 5 4 5 7	7 7 - 4-6-6-6
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121			GRY MASS 59		1207.505	
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175 124 DRK GRY SM 1216.256 2.167 116 322 DRK GRY SM HINTERBED SS 117 323 DRK GRY SM HINTERBED SS 117 323 DRK GRY SM U/SS STKS 118 124 DRK GRY SM 119 564 HARD HARS ES 119 564 HARD HARS ES 110 564 HARD HARS ES 110 565 HARD HARS ES 110 567 DRS GRY SM 120 021 CRANCH BANDED CDAL 121 564 HARD HARS S6 122 544 DRY HARS S6 1356.586 .917 122 544 DRY HARS S6 1366.755 10.167 123 124 DRY GRY SM 1414.338 47.583 124 DRY GRY SM 10 125 124 DRX GRY SM 1415.567 1.229 126 564 DRY MASS S6 127 028 CDAL H/SM STKS 1440.171 .333 126 DRK GRT SM 1440.471 .333 126 DRK GRT SM 1440.471 .333	114				1214.089	- 167
116 322		- 4	8ED:USE 20 USE 20		17.4.76	
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114 124 DRK GRY SM 1250-255 4.833 119 564 HARD HARS ES 1355.588 105.333 8ED:ROA 0 120 021 CEMPON BANDED CDAL 1355.671 .083 120 021 CEMPON BANDED CDAL 1355.671 .083 121 364 HARD NASS SS 1366.755 10.167 123 124 DRK GRY SM 1414.338 47.583 124 821 CCHON BANDED CDAL 1415.567 1.229 125 124 DRX GRY SM 1418.586 3.021 126 564 GRY MASS SS 1439.836 21.250 127 028 CDAL M/SM STKS 1440.671 .333 128 124 DRK GRT SM 1440.671 .500 128 124 DRK GRT SM 1440.671 .336	110	322	DRK GRY BN+INTERBED SS		100000	
110 564 HARD HARS ES 105.333 **SED:MOA 0** 120 021 COMMON BANDED COAL 1355.671 .083 ***ED:GYE 10 GYC 10** 121 564 HARD MARS 86 1366.755 10.167 123 544 GRY MARS 86 1366.755 10.167 123 124 OMK GRY EN 1414.338 47.583 124 821 COMMON BANDED COAL 1415.567 1.229 ***SED:MSB 10** 125 124 DRX GRY SN 1416.588 3.021 126 564 GRY MARS SC 1439.836 21.250 127 028 COAL M/SM STRS 1440.171 .333 ***RED:MSB 20** 128 124 DRX GRY SN 1440.671 .500 *** 028 COAL M/SM STRS 1440.671 .500 *** 028 COAL M/SM STRS 1440.671 .500	117	353	ORK ORY SH W/SS STKS		1265.422	6.333
** SED: MOA 0 120 021 CEMBON BANDED CDAL ** NED: GYC 10 121 366 MARD MARS \$6 123 544 GRY MASS \$6 124 DRK GRY SH 125 124 DRX GRY SH 126 544 GRY MASS \$6 127 529 ** SED: MSS 10 MSS 10 127 028 CDAL M/SH STKS 128 124 DRX GRY SH 1418-586 3.021 128 124 DRX GRY SH 1440-671 .333 ** RED: MSS 20 128 124 DRX GRY SH 1440-671 .500 ** 028 CDAL M/SH STKS 1440-671 .500	136	124	DAK GRY SH		1250_255	4.853
120 021 CXBRON BANDED CDAL ***RED-GYE TO GYC TO 121 366 MARD NASS SE 122 544 GRY MASS SE 136.755 10.167 123 124 GRK GRY SH 124 125 CXBRON BANDED CDAL ***RED-MSS TO MSS TO 125 124 DRX GRY SH 126 544 GRY MASS SE 127 028 CDAL M/SH STKS 128 124 DRX GRY SH 129 125 126 DRX GRY SH 1418.588 3.021 127 028 CDAL M/SH STKS 1440.671 .333 ***RED-MSS 20 128 124 DRX GRY SH 1440.671 .500 ****P 028 CDAL M/SH STKS	110	564	HAND HASS ES		1355.588	105.333
# NED-SOFE TO GYC 10 121 364 MARD MARS SE 122 544 GRY MASS SE 123 124 COME GRY SH 124 125 COMMON RANDED COAL 125 124 DRX GRY SH 126 544 GRY MASS SE 127 028 COAL M/SH STRS 128 124 DRX GRY SH 129 127 028 COAL M/SH STRS 120 127 028 COAL M/SH STRS 120 028 COAL M/SH STRS 121 028 COAL M/SH STRS 122 028 COAL M/SH STRS 123 028 COAL M/SH STRS 124 028 COAL M/SH STRS 125 028 COAL M/SH STRS 126 028 COAL M/SH STRS						
121 364 MARD MARS SE 1356.588 .917 122 544 GRY MASS SE 1366.755 10.167 123 124 GRK GRY SH 1414.338 47.583 124 B21 CCSMCM RANDED COAL 1415.567 1.229 * RED:MSS 10 MSS 10 125 124 DRX GRY SH 1418.588 3.021 126 544 GRY MANS SE 1439.836 21.250 127 028 COAL M/SH STKS 1440.171 .333 * RED:MSS 20 128 124 DRX GRY SH 1440.671 .500 * 028 COAL M/SH STKS 1441.067 .396	120	-			1355.671	.083
122 544 GRY MASS SE 1300-755 10.167 123 124 OMK GRY SH 1414.338 47.583 124 B21 COMMON NANDEO COAL 1415.567 1.229 * SED:MSS TO MSS TO 125 124 DRX GRY SH 1618.588 3.021 126 544 GRY MASS SE 1439.835 21.250 127 028 COAL M/SH STKS 1440.171 .333 * BED:MSS 20 128 124 DRK GRY SH 1440.671 .500 * 028 COAL M/SH STKS 1441.067 .396			HED LOYE TO GYC 10		100	
123 124 DAK GAT SH 1440.571 .500 125 124 DAK GAT SH 16 125 124 DAX GAT SH 16 126 544 DAX GAT SH 1640.171 .333 127 028 COAL M/SH WIKE 16 1440.171 .333 128 124 DAK GAT SH 1440.671 .500 129 028 COAL M/SH STK5 1440.671 .500	121		HARD NASS 55		1356,588	.917
124 821 CCSMCW RANDED COAL	122		GRY PASS SE		1366.755	10.167
* SED: MSS 10 MSS 10 125 124 DRX SRT SN 1418.588 3.021 126 544 GRY MASS SS 1439.835 21.250 127 028 COAL M/SN STKS 1440.171 .333 * SED: MSS 20 128 124 DRK SRT SN 1440.671 .500 * 028 COAL M/SN STKS 1441.067 .396	123		DAK GRY SH		1414.338	47_583
125 124 DRX BRT SN 1418.588 3.021 126 544 DRX MASS SS 1439.836 21.250 127 028 COAL M/SN STKS 1440.171 .333 ** BED:MSS 20 128 124 DRK SRT SN 1440.671 .500 ** 028 ODAL M/SN STKS 1441.067 .396	124	021	CCHANGE BANDED COMP		1415.567	1.229
126 544 GRY MANS SC 1439.836 21.250 127 028 COAL M/SH STKS 1440.171 .333 * BED:MES 20 128 124 DRK SRT SN 1440.671 .500 * 028 COAL M/SH STKS 1441.067 .396			5 YYL 1496 X S. MART 155.			
127 028 COAL M/SH WTKS 1440.171 .333 * BED:MES 20 (28 124 DRK SRT SN 1440.671 .500 * 028 COAL M/SH STKS 1441.067 .396	125	124	DRY GRT SN		1418.588	3.021
* NED:NES 20 128 124 DRK SRT SN 1440.671 .500 *P 022 COAL W/SN STK5 1441.067 .396			ORY MANS SE		1439.835	21.250
124 DRK SRT SN 1440.671 .500 9 022 ODAL W/SN STK5 1641.067 .396	127	059	COAL M/SH WIKE		1440.171	.333
♥ 028 OOAL W/SK STKS 396			SED: MES 20			
	128		DRK GRT SH			-500
50 543 GRY \$\$ W/SH STRS 1661,400 .333			CONT MAN SIKE			
	-50	543	SRY SS W/SN STAS		1441,400	.333

PAGE: 5 CAMER NAME: ISLAND CREEK CORPORATION
ALL DEPTH/INICKNESS DATA IN FEET

LOG-1 1 DASMY 1 IVAL C 2 1: 24000.1 TO- 50

LIME	0000	ENGLISH	COMMENTS	CUMULATIVE	WIT

131		COMMON BANDED DOAL		1441.567	-187
		BED IMBR 20		****	-
	363	BRY BE WISH STEE		1518_005	75,638
	114	ELK SH		1522.838	4.833
134	021	SED-LUNP 10 UNP 10		1523.680	1,042
135		DRE CRY SN		1525,088	2,208
136	544	SRY MASS SS		1938.085	12.000
137		DRY GRY SH		1558.005	19.917
138	544	GRY WASS SS		1577,005	19.000
139	124	DEX DRY SH		1590,172	15.167
140	123	DRK GRY SH W/COAL STILE		1590.339	,167
141	021	CONNON MANDED COAL		1591-152	.813
447		BEDENHP 10		444.00	1.0,0
142	Arrest -	DEK GYT SH		1591.235	.063
143	150	CONTROL BANDED COAL		1591,568	,333
164	126	DRK GRY SM		1591,693	.125
145	021	COMMON SAMOED COAL		1591,922	,229
		NED:WILP 10		10112	,
166	124	DRK GRY SH		1573,755	1.433
147	544	GRY MARS SS		1620.755	27_000
148	714	BLK SN		1668.255	47,500
149	322	DRK GRY SH-TSTERRED ST		1678.505	10.250
150	216	SLE SN		1685.505	7.000
151	750	COMPON BANDED COAL SED: WRG 10		1685.713	204
757	324	DRK GRY MASS BOY SH		1685.776	.063
153	927	COMMON BANDED COAL		1685.901	. 125
154	030	CHARGE COAL		7686,060	.167
155	150	COMMON RANGED COAL		1586,214	.146
		EDITAL III		1000044	
156	124	DAK CHA 2H		1689.256	3.042
157	113	SEK SH W/COAL STES		1689,423	.167
158	724	DRE CRY SW		1690.340	.917
159	150	CONNEN SANOED COAL		1690.423	.063
	323	DRE ERY SH W/SE STRE		1706-673	16.250
	114	BLK SN		1704.340	1.667
162		CONNON BANCED COAL		1708.465	. 125
-		SED: WAC 20 UNC 20		11.001.00	
163	127	DAK DRY FIRECLAY		1710.673	2.208
164	344	GRY NABS 65		1738.006	27.333
163	021	COMPRON BANDED COAL		1738.756	.750
	* 1	NED-LAR TO LAP TO			
166	312	BUK SH-INTERBED 99		1744.006	5.250
167	544	GRT MAGE SS		1758.006	14,000
168	114	BLE SH		1758,589	.583
169	150	COMMON BANDED COAL		1760.152	1.563
	* 1	SED: LHP 20 LHP 20			
70	114	BLK SII		1761.423	1.271
.11	543	GRY SS W/SN STKS		1803.423	42,000

PAGE: 6 CHART NAME: INLAND CREEK CORPORATION ALL DEPTHYTHICKNESS DATA IN FEET

LOG-! | [VMSUT | [VAL 1 2 1: 26000.] 10= 50

LINE	cope	ENOLISK	COMMENTS	DANKATIVE	IMIT
-			W. T. St. O'CHARLES TO ST.		200
	544	GRT KASS SS		1810,340	6.917
173	116	CLK SN		1812.757	2.417
174	050	INPLINE COAL		1813.007	.20
		SED:PC9 10		1811 200	
175	021	CONTROL BANGED COAL		1814.590	1.583
176	113	BLE SH W/CDAL STEE		1814_861	.271
177		COMMON BANDED DUAL		1315,090	1.229
178	114	REE 2H		1818,423	2.335
179	544	GRY MASS SE		1845-173	26,750
180	543	GRY SS U/SH STEE		1851.425	6.250
181	324	DRK GRY MASE SEV SN		1857 .173	5,730
182	114	ULK SH		1857.256	-083
153	021	COMMON BANDED COAL		1858.756	1.500
2-1		MED:PCF 20 PCF 20		(Acc	-
184	124	DRY GRY SN		1858,985	-329
185	114	BLK SM		1640.923	1,938
186	324	DRY DRY MASS SOY SH		1478.340	17.417
187	364	HARD MASS SS MED:LSA G		1905.425	26.083
100	544	GRY WARA TH		1928.173	21.750
109	324	DRK CRY HASS SOY SH		1962.173	34,000
193	364	NARD MASS SS		2040.175	78,000
191	764	HARD 072 PER CEL		2053.923	13.750
192	124	DRIC DRY SW		2059.423	5.500
193	764	HAND GTE PED DOL		2074.340	14.917
194	554	HARD MAGE SS		2163.840	29,500
100	200	SED:LOA C		********	- France
195	544	GRY MASS 35		2172.090	8.250
196	324	DRK CRY MASS 80V SH		2175.675	3,583
	123	DRK SAY SH S/COAL STKS		2177-840	2.167
198	021	CONSIGN BANDED CONL		2181,590	3.750
		ED:PC\$ 20 PC\$ 20		344	74.040
199	114	BLE SH		2182,423	.633
200	544	DET MASS SS		2221,340	38_917
201	324	DRK GRY MASS SOY NH		2230,486	9,146
202	050	INPURE COAL		2230.507	.021
		IEB (PC3 TO			
203	900	CONSIGNI BANDED COAL		2231.528	1.021
904		180 p (3 10)		2027 270	.042
204		ALK SH W/COAL STAS		2231.570	
205	124	DEK DEY TH		2231,633	,063
206		COMMON BANDED SOAL IED: PES 20		2732,966	1.333
207	030	INPURE COAL		2235, 154	-188
208	021	COMPON BANDED COAL		2233.342	,105
209	030	INPURE COAL		7253.425	.083
	114	BLE SH		2233,550	-125
1	022	COAL W/BONE LAYERS		2234.092	,542
3	021	COMMON BARDED COAL		2235.342	1,250
		ED:PC5 20		- die	13.44

PAGE: 7 QUNEA HANN: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LOG-E 1 DANSAT 1 CAN E 2 1: 5000.1 10- 50

LINE	DODE	ENGLISH	COMMENTS	DIMELATIVE	UNIT	
	*****	***************************************	************	*********		
213	114	BLK BH		2235,655	.313	
214	OED	INPURE COAL		2235.476	.021	
	* 8	D:PC3 30				
215	021	COMMON BANDED COAL		2236,197	.521	
216	124	DRK GRY SH		2236.780	.583	
217	021	COMMON SAMPED COAL		2236.463	. 085	
		ED : PC3 30		100		
218	124	ORK CRY 5N		2241,446	4.583	
219	030	IMPUNE COAL		2241.529	.083	
220	324	DRK GRY MASS ADY 3M		2246.196	4,567	
221	123	DRE GRY SW W/COAL STEE		7246,529	.333	
222	124	DRK SRY SH		2255_029	8,500	
223	113	BLIE BIN W/COAL ETES		2256.029	1.000	
224	021	CONNON ENADED COAL		2256.071	.042	
1	-	ED: PCZ 10 PCZ 10		. 6-746.8	3-00	
225	124	DAK ONT BH		2259.779	3,708	
226	030	INPURE COAL		2259,944	.167	
-	and the same of	ED:PG2 20 PG2 20		(See Colon)	2.12	
227	124	DRE GAT SH		2276.445	16,500	
228	322	DRE CAT EN-INTERSED 15		2511,196	34.750	
400		Aug. Self. Self-Hillson and				

PAGE: I DAMER MAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG=1 1 TVNSNT 1 TVAT 1 2 11 24000.1 TO+ 60

IDENTIFICATION SECTION

- I. WAD HAVE! WHENT
- 2. STATE LOCATION OF GUAD! VA
- 3. SCALE OF GUAD: 2
- 4. LOG TO #: 60
- 5.1 UNPUBLISHED RECORD. COMPANY OR AMERICY NAME: ISLAND CREEK DORP
- 6. BIVISION OF TRACT:
- 7. DRILL HOLE HUNDER: L-96
- B. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP.
- 9. CONTRIBUTING COMPANY OBHA: L-96

COURDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3608794.28
- 12.3 STATE PLANE EAST 18430513.27
- 15.1 COMPANY MELD N/S: 20750.00
- 15.2 COMPANY GRID E/W: 11575.00

CIVIL PISTRICT MIERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 18. COUNTY: ELICHAMASI
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACES
- 20. GROUND LOCATION DESCRIPTION: KEEN ATN., VA

MENOLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE OR SECTION: F
- 1657-90 DRILL ANGLE D.
- 2. METHOD OF ELEVATION DETERMINATIONS S
- 23. NAME OF PERSON LOGGING: SOT
- 24. YEAR DRILLED ON MEASURED: 1959
- 25. TOTAL DEPTH OF DRILL HOLE: F 1780.100
- 26. GED CODE RESION IDENTIFIER: NUPP
- 27. DODE OF UPPERHOST IDENTIFIABLE BED: ALY
- 28. CODE OF LOWERNOST IDENTIFIABLE BED: PCS
- 29.1 KIND OF RECORDS C
- 25.2 HETHOD OF LITHO DESCRIPTION: 1 (CODE)
- 30.1 UNITE OF HEASUREMENT: TIFTE J
- 30.2 NETHOO(S) OF MEASUREMENT: 1(THM.)

PERSON(S) LAST MODIFYING THIS LOG

- 31. PERSON SUMMITTING LOS FOR ENTRY: DEL
- 32. DATE OF LOG SUBMISSION (MM/DD/TYYY): 2/23/87

LAST MODIFIED HY: DGL

DATE: 9/3/1992

USER DATA: 4.48' HET COAL >= 1.5'

2 DAMER HAME: ISLAND CREEK CORPORATION ALL DEPTHYTALICKNESS DATA IN FEET

LOG= (T EVMENT

1 IVAL [2 1: 24000.] ID= 60

LINE	CODE	ENGCIEN	CONNENTS	CLIPLEATIVE	UN17

1	100	CASING OR SURFACE		33.417	33.41
2	524	DRK GRY HASS SOY SH		107.084	75.66
3	544	IRT MASS ES		130,334	23.25
6	113	BLK SH W/COAL STICS		130.917	.56
5	544	ERY MASS SS		178,834	47.9
6	749	GRY SS N/COAL SPARS		180.001	1.16
7	1.00	ERY NASS SS		184.291	4.25
8	323	DRK GRY SH W/SS STKS		235.534	91.0
9	021	COMMON SANDED COAL		235.751	.41
0		SED:ALY 10 ALY 10		2007.54	603
10	324	DRK SAY MASS SDY SH		237,834	2.0
17	544	CRY HARS SO.		271.251	33.4
12	543	GRY SH W/SH STKS		272,334	1.08
13	124	DRK GRY SN		273.688	1,35
14	021	COMMON BANDED COML		273,188	1,50
75	220	MED SALY 20 ALY 20			1000
15	023	COAL W/BONE STICS		275.581	.31
-	Owe.	SED : ALY D		414,444	740
16	114	BLE ON		276,001	.30
17	2.50	BRK GRY SH-INTERSED SE		296.001	20.00
18	314	SLE MASS SOY SH		309.168	13.16
19	524	DRK GRY MARS SOY SN		317.918	0.75
20	564	GRY MASS SE		336,001	18.08
21	124	DRE GRY SH		344.001	5.00
22	021	COMMON BANDED COAL		345,668	1.66
-		DED : RVW 20 RVN 20		400.000	-
23	124	DRE ERY SH		348.335	2.56
26	021	COMPON BANDED COAL		348,418	.08
25	114	BLX SH		348, 563	-16
26	021	COMMON BANDED COME		348.752	. 14
27	124	DRK GAY SK		349,502	.75
28	150	COMPON SANDED COAL		349,544	.04
29	124	DRK GRY SH		352,544	3.00
30	021	CONNEN BANDED COAL		352.556	.04
31	124	DRX DRY SH		354.919	4.33
-	324	DRK GRY HASS SOY SN		365.169	4.25
	544	DRY MARS 55		373.502	6,33
34	543	GRY SS H/SN STKS		376.002	2.50
35	544	GRY MARS 35		418.502	34.50
36	124	DRIC GRY SH		435.252	24.75
	544	GRY MASS 55		434-002	-75
38	322	DAE MY SHINTERBED 59		444,002	5,00
39	126	DRK GRY SW		460.002	16.00
40	021	COMPON BANDED COAL		441.481	7.47
		ED:JAN 10		121,101	1147
41	030	IMPLIE COAL		461,505	.10
41		ED:JAN 10		4011242	.,,,
12	544	GRY MAGE 35		457.468	26,05
-	324	DRY GAT MASS SOY SH		493.147	5.47
	021	SCHADA BAHOSO CDAL		493.876	72
-	224	EU; JAN 20		222.014	11.4

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

PAGES

1.0001 1 DANT 1 DAN 1 2 1: 24000.1 ID-

LINE	CODE	ENGLISH	DIMENTS	COMULATIVE	UNIT
****	Second.				**********
45	124	DAK BRY SK		494.668	.792
56	021	COSSIGN BANDED COAL		495,501	,833
		WED: JAW 20			
47	324	ORE DRY MASS SOT SH		497.564	2,083
48	544	GRY MASE 43		535.501	37-917
49	114	acc su		536.084	-543
50	749	GRY SS W/COAL SPARS		544.167	5.083
51	700	CCL		544.000	1,833
52	740	GRY COL		563.250	17.250
53	114	BLK SX		581.063	17-633
54	021	COMPTON BANGED COAL		581.458	.375
58		RED:TIL 20 TIL 20			
35	324	DRK GRY HASE SDY SH		396.000	14-342
56	322	ORK SRY SHHINTERRED DE		634.000	38.000
57	323	DRK GRY SH U/SS STXS		695.083	61.085
56	544	CRY MASS SS		715.750	20.667
59	05/	COMPEN BANGED COAL		716.167	.617
		MED:USB 20 USB 20			
50	324	DRK GRY HASE SOY EN		724.334	8.167
61	544	GRY MASS SI		771,001	46.567
62	364	HARD MASS SE		867.668	76.657
		BED ; MOR. D			
43	516	BLK SH		882.751	15.083
64	124	DRK CRY SH		892.168	9.617
65	322	DER DRY SHATERBED SS		P10.168	18.000
66	124	DRK GRY SH		918.418	8,750
47	544	CRY WARS SE		923.416	5.000
58	324	DAE DRY MASS SOY SH		943.001	19.563
69	123	DRK GRY SH W/COAL STRE		941.376	.373
70	021	COMMON BANDED COAL		943.584	.208
		RED: HSB 20 HSB 26			
71	123	DRE DRY SM MYCOAL STAS		945,001	2.417
72	174	DRK ORT SH		949.418	3,417
73	344	GRY MASS 55		983.501	34.063
74	749	GRY SS W/COAL SPARS		987,801	3,500
75	544	COT MASS SD		1021,001	34_000
76	323	DAK GRY SH W/59 STKS		1057.418	15.417
77	544	GRY MASE SS		1059.418	22,000
	124	DRK GRY SH		1060.751	1,333
79		COVERCE BANDED COAL		1061.668	.917
		SEDICURP 20 LIFE 20			
80	124	DRK GRY BM		1062-751	1,083
	544	GRY MASS SS		1072.534	10.083
82	124	DRK GRY SH		1098.001	25.167
103	544	GRY MASS SS		1107.334	67.333
84	124	DRIC GET SM		1191.501	24.167
85		GRY MAST 39		1224.751	33,250
86	200	DEK BRY SH		1227.418	2.687
7.7	150	COMMON BANDED COAL		1228.001	.583
-		BED:WEC 20			

PAGE: 4 DAMEN HAME: TELAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG-1 1 (VNSAT 1 (VA) (2 1: 24000,1 (D-

LIM	E 0005	ENGLISH	COMENTS	CUMPLATIVE	URIT
					-
60	930 t	NOUNE COAL		1225.168	.167
		MIC 20		09-27-09-6	20.450
34	124 b	RX SRY SN		1229.168	1.000
90		RY MASS 35		1279-751	50.583
91	114 B	LIC SN		1280.064	-333
91		NAURE COAL		1280.126	,942
		LE 50		1-34-7	13.0
93		OWNOW BANDED COAL		1281 .418	1,292
		LHP 20		1000	11000
94		LK SH H/COAL STKS		1282.163	.750
99	1 1 1 1 1 1 1	RE CAY SH W/DOME STED		1283.585	1.417
94	S. Darmon School	EY SE WISH STICE		1295.168	11,583
67		IK GBY SH W/SE STKS		1320.568	25.500
98		C SRY SH		1336.085	15.417
99	and the second second second	MONON BANDED DOAL		1337,085	1,000
		PC9 10 PC9 10		12011144	11000
160	The second second	RE GRY MASS SOY SH		1338, 085	1,000
701		IY MASS 55		1369.752	31.667
102		E 30		1362,335	12,563
103	7777	SOLON BASIDEN COAL		1502,635	.500
100	100	PC9 20 PC9 20		14455004	1400
104	100	IK GRY 58-INTERBED DE		1445.502	82.867
103		K GRY SH		1471-919	6,417
106		ORD HASS 65		1510.752	38.633
100		LQA 0		1910.792	30,000
107	2007	RE OTZ PER COL		1521.002	10,250
106		UND PLASS \$5		1600.919	79.917
109		15000 MD		- CR2 3F LCC2-	
110		NO GTZ PEB CGL PGRON SANDED COAL		1603.419	2,500
111		NED G7Z PEB CQL		1605,502	A 10 miles - 4 il 10
112	20 A W	Y MASS BE		1605.002	1.500
113		LIZED BTZ PER CGL		1649.002	20.750
113		The state of the s		1047,002	23.250
444	021 CC	The Paris of the World Control of the Control of th		****	
110	16.0	SHOW BANDED COAL		1849.585	-383
***		PCS 10 PCS 10		****	** ***
		S GRY MASS EDY EN		1471,252	21,667
116	14.44	PCS 20 PCS 20		1671.912	.667
***	and the second				
117		St SEAM Y		1667.752	25,833
116		K TH		1707.535	3.583
110		MAKIN SAMBED COAL		1702.160	.833
		PCE 10		222 (27)	244
120		PURE COAL		1702-751	583
		PC4 10		Sept Calif	C2 3.22
121		K GRY MASS SOY BIT		1753.584	50.233
122		K SN		1755.605	1021
123	The second second	MACH BANGED COAL		1754.753	1.188
-20		PCS 10 PCS 10		140.00	14-11
24	27-3-	(UMD) F3		1754.918	-125
125		PURE COAL		1755.768	,256
	mED:	PC3 20			

SERTAL MUM: FC1092685-003-5.00

LOG=() [VASNT] [VAJ [2 1; 24000.] (D= 60)

Lini	E COO	E ENGLISH COMMENTS	CAULATIVE	LNIT
			*********	*********
126	021	COMMON BANDED COAL		100000
127		BOME CERT	1756.335	1.167
128		CORROM BANDED COAL	1756.398	.063
129		BLK SH W/COAL STAS	1756.775	.375
130		IMPURE COAL	1754.836	-063
131	124	DRK GRY SH	1756,899	,063
132	14.00	BLE SH	1757.232	.333
133	1.00	IMPURE COAL	1757.295	, 0.63
134		COMMON RANDED COAL	1757.358	-063
135	114	BLK SN	1757_650	-292
136	D21		1757-735	.083
137	100	COMMON BANDED CDAL SN (UND)F)	1757.837	,104
138	021		1757-658	.021
139	124	DRE GRY SH	1757.921	,063
140	114	ALK SN	1755-150	.229
141	021		1758.171	.021
142	030	CONNON BANDED COAL	1759,006	.833
143	021	EMPLANE COAL	1759.129	125
100		COMMON BANDED COAL	1759.212	.083
144		NO 1963 20		.003
45	124	DRE CAY SW	1764.483	5.271
**	021	COMMON BANGED COME	1769.066	
146	544	SED: PC3 30 PC3 50	1100,1000	.583
140	-384	GRY WASS 35	1780.066	15.000

PAGE: | CHRER RAME: ISLAND CREEK CORPORATION
ALL DEPTH/PHICKNESS DATA IN FEET

LOG= (1 MISHT 1 IVAL F 2 1: 24000.2 10= 57

JOENTIFICATION SECTION

- 1. GLAD SAME: WIENT
- 2. STATE LOCATION OF GUAD: YA
- 3. SCALE OF QUAD: 2
- 4. LOG 10 M: 59
- 5.1 UNPUBLISHED RECORD. COMPANY OR AGENCY NAME: I FLAND CHEEK CORP.
- 6. DIVISION OF TRACT:
- 7. DRILL HOLE HUNBER: L-108
- B. CONTRIBUTING COMPANY OR AGENCY: INLAND GREEK CORP
- 9. CONTRIBUTION COMPANY DONG: 1-100

COORDINATES OF HOLE DE SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/8: 3612441.62
- 12.3 STATE PLANE 8/N: 10434057.22
- 15.1 COMPANY ORIGINES: 24495.44
- 15.2 DOMPARY MID E/WI 15016.34

CIVIL DISTRICT MERE LOCATED

- 17. STATE MUERE NOLE COCATED: VA
- THE COMPLETY: BUTCHMAN
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCOMPONATED PLACE:
- 20. GROUND LOCATION DESICK PTICM: KEEN MTN., VA

MEHOLE OF SECTION DESCRIPTION

- 1). ELEVATION AT TOP OF HOLE OR SECTION: F 1722.70 DRILL ANGLE D.
- 22. WETHOD OF ELEVATION DETERMINATION: 5
- 23. MANE OF PERSON LODGING! JOY
- ZA. YHAR DRILLED OR MEARINED: 1959
- 25. TOTAL DEPTH OF DRILL HOLE: F 1791.000
- 26. BED CODE REGION IDENTIFIER: MAFF
- 27. COOR OF UPPERMOST TOENTIFIABLE MED: EEN
- 28. CODE OF LONERHOST TORNTIFIASLE BED: PCS
- 29.1 KIND OF WECCHO: C
- 25.2 KEYHOD OF LITHO DESCRIPTION: 1(000E)
- 30.1 LMITS OF HEASIMERENTS TOFIF 1
- 30.2 METHOD(\$) OF HEASLIREMENT: 1(THE]

PERSON(S) LAST MODIFYING THIS LOG

- 31. PERBON SHOW! TTING LOG FOR ENTRY: DOL
- 52. DATE OF LOG KURNTESTON (MOL/OD/YYVY): 2/23/67

LAST MODIFIED BY: DOL

DATE: 9/3/1992

USER DATA: 14.23' MET DOAL +# 1.3'

Z OHNER MAME: ISLAND CREEK CORPORATION ALL DEPTRICTNICKNESS DATA IN FEET

PAGE

LOG=(I TYNENT

1 DVAL E 2 1: 24000.1 10=

ATME CODE COMMENTS ZIBBLIATIVE LINIT ENGL 15H ters necessary total terroristic continues of the continues of the continues to -------1 007 CASING DE SURFACE 38,000 38,000 2 322 DRK DRY SH-CATERBED BE 62.417 24.417 3 324 DRK GRY MASS SDY SH 149.417 87.000 4 021 COMMON BAMDED COAL .500 160.917 " BED: YEN 10 KEN 10 9 124 DRK GRY SH 156.584 6.667 6 544 ORY MASS SS 162.584 6.000 7 124 DRK CRY SN 169,634 T. 250 233.834 64,000 8 544 GRY HASS 38 271.417 37.583 9 324 DRK GRY NASS BOT SH 10 030 INPURE EDAL 277-875 -458 " SEDIALY TO ALY 10 11 124 272.583 DRE GRY EN .708 34,167 12 544 GRY MASS SE 306.750 1.750 13 124 DAK GRY SH 108.300 16 021 309.333 CONTINUE BARDED COAL .333 F BED:ALY 20 15 114 BLK SH 309.583 -250 16 030 DOPURE COAL 309,833 250 * BED: ALT 20 17 124 DRK GRY SM 355.666 45 833 15 544 GRY MASS 55 375,416 17.750 19 124 DRE GRY SM 375.458 .042 20 021 376.750 CONSIGN BANDED COAL 1.292 DE HVA OS HVA: CAR " 21 544 411.750 DAY HASE SO 35.000 .083 22 030 INFURE COAL 411.833 23 544 ORY MASS 35 429.DR5 17.250 24 020 429.583 .500 COAL " BED : RVN 30 S 116 431.500 1.917 BLK 58 COVENCY BANDED COAL 452,000 26 921 .500 * RED:RVM 30 27 323 648,000 16.000 DAK DAY SH W/SS STKS 28 126 ORK GRY SM 498.583 50.583 29 021 COMMON EAMOED COAL 300,125 1.542 * BED: JAN 10 JAN 10 30 324 DAK GRY NASS 30Y TH 505 833 5.708 31 544 GRY MASE SE 517.000 13.167 32 324 DRX ERV MASS SOV SH 525.667 0.667 33 021 LAKE GEGNAB HOPPOOR 529.384 .917 " SED : JAN 20 JAN 20 34 124 DAK GRY SH 532.001 2.417 35 544 GRY WASS SE 577,834 45.333 36 124 2.750 DRE DRY SH 580.584 37 700 584.584 CSI 4.000 38 021 CONNECE BANDED COAL 584.557 .083 39 114 BLE SH 588,584 3.917 0 322 504.834 DRK GRY SH+INTERBED 38 6.250 603,504 41 563 FRY SS HISH STES 0.750

I DAMER NAME: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LDG=1 1 (VMSMT 1 (VA) (2 1: 24000.1 (D= 55

LINE	coce	ENGLISH:	COMMENTS CLINUL	ATIVE	UNIT
	323	DAY COY SH WISS TIKE	in	. 201	5.417
17.7	114	BLK SN		9.001	.583
1,000	121	COMMON BANGED COAL	70	0.251	.667
***		BED: FIL 10 TIL 10	91	1.621	.60/
15	124	DRK GRY SH	40	* ***	7-617
	114	BLE SH	1.3.7	800.7	.833
47		CONTON SAMPED DOAL		5.501	.417
40		BED: TIL 20 TIL 20	en	8,918	-41/
10	124	ORK GRY SH	42	toc	3 449
48	564		7.7	1.585	2.667
		GRY MASS 55	20.0	2.002	10.417
-	322	DRK GRY \$#+1WTERHED BU		1.339	79.333
51		CONNON MANDED COAL	70	.668	,333
	marks.	SECULSE 10 USB 10			46
52	124	DRE URY SM		1.335	11.667
	544	DRY MASS ST		.585	88.250
54	364	MARC MART SO	6/1	1.835	68-250
-		RED (NEA O			***
200	021	CONNON SANDED COAL	. 753	2.916	.083
56	56€	HARD HAST DE	158	1.168	6.250
	100	SED : HRA O	Que		650
57	027	COMMON BANDED COAL	882	,585	-417
-	5 40 7	IED: GYC 10 GYC 10	22	728	an (18.0)
35	544	GRY MASS ST	565	,666	7.003
59	021	COMMON BANDED COAL		-710	.062
50	544	GRY MASS 85	3.75	.502	7.792
61	114	BLK SH		.919	12.417
65	323	DRX GRY SH W/SS STKS		·419	35.500
63	034	SONE	952	.044	.625
		ISD : MBE 10	6.1	- 12.00	100
24	021	COSMON SANDED COLL	952	127	.083
		IED; MER 10			200
65	543	SAY S\$ W/SH STICS	70.5	.752	18.625
66	113	OLK IN W/CDAL STES		.419	.667
-	324	DRE DRY MASS SOY SH	877	.461	9.042
68	021	CONORM BANDED COAL	940	.836	.375
3		ED:HSB 20 MSR 20		-	
	173	BLE SH W/COAL STEE		. 436	5,000
70	344	CRY MASS 15	1051	.336	68.500
71	123	DRE GET SH MISS STES	1071	.669	20.335
15	021	CUPRION BANGED COAL	1072	.336	-567
		EDaUMP 10			
73	114	BLK SN	1073	-086	-750
74	021	COMMON BANDED COAL	1073	.253	-167
		ED FUNP 10			
75		DRK GRY SH	1074	-253	1.000
	544	BEY MASS SS	1099	086	24.833
77	124	DRIK GRY SH	1099	.919	.833
72	021	CONNON GAMDED DOAL	1100	-586	.667
	* 5	ED:URP 20 UWP 20			
79	124	DRE GRY MASS SOV SR	1125	419	24,833

PANE: 4 DINER MANE: ISLAND CREEK CORPORATION
ALL DESYMPTRICKNESS BATA IN FEET

LOG=C 1 DVMSVT 1 DVA1 1 2 17 24000.1 10= 59

LINE	CODE	ENGL 15H	COMPENTS	COMPLETIVE	UNIT
			THE PERSON NAMED IN COLUMN TWO		
60	113	SLK SH W/COAL STAS		1126.002	.583
81	021	COMMON BARDED COAL		1127-002	1.000
		DEDINNP 10 MMP 10			
82	124	DRE SAY SH		1139,419	12.417
83	344	CRY MASS 55		1199.469	60,250
84	114	DLY SN		1221_919	22.250
85	544	GRY MADE SO		1259.669	37,750
86	126	DRK GRY BN		1267.252	7.583
87	544	BRY NASS SE		1293.752	26.500
88	124	DAK GRY SH		1298.835	5.083
89	543	GRY SO W/SH STKS		1301.585	2.750
90	124	DWK SRY SH		1308.065	6.500
91	621	COMMON BARDED COAL		1309.335	1.250
	* 1	SERVING SO THE SO			
77	124	DIEC GRY SH		1312.168	2,833
93	543	ERT 39 W/SH STES		1364.585	32.417
O.L	563	HARD SO LE/SH STKS		1300.668	16.083
95	124	DAK BRY SH		1372,005	17.617
96	114	ELE SH		1573.002	.917
97	021	COMMON BANKED COAL		1375_335	2.333
	* 1	SED:PCP 10			
98	030	INPURE COAL		1375.418	.085
	* 1	ED:PCF 10			
79	124	ORK BEY SH		1382.585	7.167
100	343	GRY SS W/SH STXS		1399.502	16-217
101	714	SLK SH		1412.169	12.667
102	021	CONSIGN BANDED COAL		1612.752	-583
		IED IPC9 20			
103	(130	IMPURE COAL		1413.085	.333
	* 1	IED: PCP 20			
106	125	DATE SEY SK		(418.835	5.750
105	544	GRY MASS SE		1424.585	5.750
704	124	DEK MY SH		1440.752	16.167
107	114	ELK SH		1451-085	10,333
108	124	DRK GRY SH		1455.418	4.333
107	243	GRY EX W/SH STEE		1451.389	6.167
110	375	DRE ORY SH U/SS STKS		1467_560	5.083
111	714	DLE SH		1468.501	,833
112	322	DRK CRY SH+1MTERBED SS		1489.751	21.250
113	113	BLK SH W/COAL STKS		1493_084	3.333
114	544	GRY NASE SS		1502.084	9.000
115	322	DRK GRY SH+INTERGED ES		1520.A17	18.535
116	564	HARD MASS SS		1596.584	76.167
	* 1	ED:LRA D			
177	764	HARD STE PER COL		1506.042	89.438
	7.5	EDILGA D			
工技术	021	COMMON BANDED COAL		1687.167	1.125
	00.2	SD:PC5 20 PC5 20			
	124	DRK GRY SH		1692.000	4,833
20	544	ERY MASS 88		1733.250	61.250

PAGE: 5 GAMEN NAME: TSLAND CREEK COMPORATION
KLL DEPTH/THICKNESS DATA IN FEET

LDS-[] [VNSHT] [VA] [2]: 24000,3 ID= 59

LINE	CODE	ENGCEGN	COMMENTS	CUMULATIVE	UMIT
121	124	CAK SRY SH		1753.917	.657
	544	GRY MASS SS		1737.000	3.083
123	742	GRY SH PED CGL		1737.563	.583
124	124	DEE DET EN		1748.563	11.000
125	123	DRE GRY SH W/COAL STEE		1750.021	1.438
126	030	HERE COAL		1750,125	-104
		REDIPCA 10		Visation.	-100
127		COMMON MANDED EDAL		1756.354	5.229
128	030	EMPURE COAL		1756.458	-104
		SED:PCA 10			140,000
129	ALC:	BLX SH		1757.104	-846
130	930	INFLRE COAL		1757.500	,396
	1.00	MD:PCA 20 PC4 20		10011000	75.4
131	544	GRY MASS 35		1764,583	7.083
132	329	DIRK SHY SOT SH M/ POR MILLS		1768.021	3.438
155	030	IMPURE COAL		1768.042	.021
1.44		NED :PC3 10		111,000,000	
134	021	COMMON BANDED COAL		1769-417	1,375
135	021	COPPON BANDED COAL		1769.438	.021
144	-	NED:PCS 10		11841424	
36	100	SH (UNDIF)		1769,521	.083
137	021	COMMON SAMDED COAL		1771.000	1.479
121		IED: PC3 20		1771,000	1,412
138	034	BONE		1771.083	.083
139	030	INPURE COAL		1771,208	. 125
140	021	COPHICH BANDED COAL		1771.273	167
141	030	INFURE COAL		1777 ,521	-146
142	750	COMMON BANGED COAL		1772,167	.646
143	100	SN (UNDIF)		1772.250	-083
144	750	DOWNON BANDED DOM		1773,229	979
145	114	BLK SW		1773.271	.042
146	029	COAL W/PYRITE STEE		1773,584	.313
146		IED:PC3 20		1110000	
147		ark sh		1774.001	.417
148	030	IMPLINE COM		1774-043	,042
140		ED:PES 30		117744043	
149		COMMON EAMDED COAL		1774.751	,688
140		ED:PC3 50		bernettat.	,000
150	714	BLK SR		1775.731	1.000
151		INPURE COAL		1775.898	.167
152		DRE GRY MASS EDY SH		1782.946	7.042
153		IMPURE COAL		1783.065	.125
154		DRK GRY MASS BOY SH		1790, 982	7,917
124		Aur del unas en su		IF PU. TOE	4 12 14

FACE: T DAMEN NAME: ISLAND CREEK CORPONATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG=() FVMENT 3 EVAL E 2 1: 24050.1 TO= 3

IDENTIFICATION SECTION

- 1. GLAD NAME: YHTH!
- 2. STATE LOCATION OF GUAD! VA
- 3. SCALE OF QUAD: 2
- 4, LDG Ib #: 3
- 5.1 UNPUBLISHED RECORD, COMPANY OR AGENCY MANE: CALAND CREEK COAL COMPANY
- &. DIVISION OR TRACT:
- 7. DRILL HOLE MANNER: L-711
- 8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
- 9. CONTRIBUTING COMPANY DONES L-111

COOKDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE W/5: 340779,28
- 12.3 STATE PLANE E/W: 10459116.24
- 15.1 COMPANY GRID N/S: 18975.41
- 15.2 COMPANY MEID EALS 20231.98

CLYLL DISTRICT WHERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 18. COUNTY:
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, ON INCOMPORATED PLACE:
- 20. SROUND LOCATION DESCRIPTION:

RENGLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF MOLE OR SECTION: F 1593.40 ORILL ANGLE D.
- 2. METHOD OF ELEVATION DETERMINATIONS U
- 23. NAME OF PERSON LONGING: JOY
- 24. YEAR DRILLED OR MEASURED: 1959
- 25, TOTAL DEPTH OF DRILL HOLE: 5 1462,000
- 26. BED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERSONT TOENTIFIABLE BEG: JAN
- 28. CODE OF LOWERHOUT IDENTIFIABLE MED: PCJ
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1 ICQUES
- 30.1 UNITS OF MEABLINEMENT: TEFIF T
- 30.2 NETHOD(S) OF MEASUREMENT: ICTM: I

PERSON(S) LAST MODIFYING THE LOG

- 31. PERSON SUBMITTING LOG FOR ENTRY: KUF
- 32. DATE OF LOG SUBMISSION (MM/DD/TYYY): 10

LAST MODIFIED BY: DOL

DATE: 9/3/1992

USER DATA: 17.31" HET COME -- 1.5"

PAGE:

LOG=1 1 (VMSMT) (VA7 1 2 1: 24000.1 10= 1

LINE	CODE	ENGL18M	DOMENTS CUA	RATIVE	TIMU
1	100	CASING OR SURFACE		20.000	20,000
2	344	GRY MASS 35		88.833	66-633
3	352	DRK GRY SH W/SE STEE		34.500	45.667
4	544	DAY MASS SS	-7	85.000	50,500
5	323	DRK DRY SH W/95 9TKS		87.833	2,633
٥	021	COMMON SAMOED COAL	19	68,666	.B33
		SED: JAN 20 JAN 20			1
7	124	DRK GRY SH		91.769	3.083
8	544	GRY MASS \$5		32,416	40.667
9	-021	CONHON BANDED COAL	12	32.499	.083
10	740	CRY CGL	4	40.999	8.500
91	544	GRY MASS SS	1	51.749	10.750
12	328	DRK DRY SH W/SE STES		69.999	16,250
13	322	DRK GRY SH-INTERSED SS		77,416	7-A17
14	114	SLE SH		77.833	-417
15	124	DRE GRY SH	4	83.083	5.250
15	421	DESPRESS SANDED COAL	3	84.250	1,167
		BED:YIL 20 TIL 20			
17	324	DRK CRY MASS SOY SH		25.500	1.290
18	543	CAY ES W/SH STES	3	01.500	16.000
19	324	DRK GRY MASS SOY SH		79,333	77.833
20	021	DOMENON BANDED COAL		79.750	-417
27	100	SED:USE IN LISE TO		13/004	
21	114	BLK SP	13	79.917	.167
22	544	GRY MASS SS		05.625	25.708
53	021	COMMON BANGED COAL	4	06.167	,542
- OF	-	860:USB 20 USB 20			
24	324	DRN GRY WASS EDY SH	4	63.417	47.250
8	124	DRK GRY SH		11.567	58.250
26		DOMENN SAMPED COSL	3	11,488	321
		med: drc 18 Gyc 10			
27	544	GRY MASS SS	1	49.534	37.895
28	724	DEK DET SH		70_001	20.417
29	324	GRK GRY MASS SOY SH	5	71.668	1.667
30	543	GRY SS W/SH STEE		15.918	44.250
The second	124	DRK GRY SH	- 126	16.835	.917
	021	ECHNON BANGED COAL		16.877	.042
-		SED: MSE 20			
33	124	DRE TRY SH		17.169	.292
34	028	CEAL WISH STES		17.919	,750
-	-	BED :MSB ZO			2772
35	544	DAY MASS SE		37.586	19.667
36	123	DRE GRY SH W/COAL STKS		37.919	_333
	124	DAK GRT SH		41.169	3.250
38	543	DRY SE W/SH STES		500,58	46.833
30		GRY SS W/CDAL BANDS		97.919	9.917
40		DRK GRY SH-INTERSED 35		30,002	32.083
49	124	DRE GRY SM		33.127	3.125
1	021	ECHNON BANDED FOAL		33.585	.456
	1000	SED : UNP 10		711.00	4.74

AGE: 3 CHAMEN MANNE: ESLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG=(1 (VMSWT 1 (VA) 1 2 1: 24000.) 15- 1

LINE	CODE	ENGLISH	COMENTE	DMULATIVE	WIT
****		3		***************************************	**********
43	116	BLK #H		733.600	. 194
44	1000	IMPARE CXIAL		734.232	-563
		BED SLIND 10		Transiti V CH	
45	-	DRIC GRY SH W/COAL STIS		735.419	1.167
	544	GRY WASE SS		752.584	17-167
	324	DRK SAY NASS SOY SN		753.373	5.792
AB	021	CORNA SAMPES COAL		758,920	-342
124		RED: UNP 20 UNP 20		-114 HD	17.400
49	-	DRK GAY MARS SOY SK		769.503	10.583
50	7.5	CHY MASS SE		790,920	21,417
51	124	DRUK GRY SH		792,670	1.750
52	021	CERMON SANDED COAL		792,920	.250
-		MEDITANO TO RIP 10			704
53		DEK ERY SH		793.337	.417
SA.	544	CAT MAR \$5		515.337	22.000
55	124	ORK SAY SH		256.504	61.167
54	124	DRE GRY SH		874.671	18, 167
57	021	COMMON BANDED COAL BED: HRE TO LIKE TO		875.171	.500
58	126	BRE DRY SH		875,421	.250
59	544	GRY MASS SE		891,754	16.333
	021	CCHRON BYRDED CONT		392.254	.500
		BED JURG 20 HWG 20		472.234	.500
61	324	DRE GRY MASS SOY SH		695.587	3.333
62	544	GRY MASS SE		899,754	4.167
63	324	DRK GRY HASS SOY SH		968,504	8.750
64	124	DRE GEY SH		909.171	,667
65	021	COMMON MAXINED COAL		909.213	-042
66	124	DRIE GRY SH		909.338	-125
67	544	GRY MASE SS		945.338	39.000
68	124	DAK GRY EN		948.755	.417
69	759	KTLIZED SS H/GOAL SPARE		949.005	-250
70	021	COMMON BANDED COAL		949.838	. 833
		SEDICLIAP 10 LIMP 10		2.4.0	(1445)
71	114	DLK IN		950,005	-147
	326	DRK GRY MARS MOY SH		955,755	5.750
	544	CRY MASS SE		970.734	14,979
	021	COMMON BASDED COAL		970.776	.042
- 5-		ED:LMP 20		1,40	
75	127	DRK GRY FERECLAY		970.250	.083
76	D21	DOWNER BANGED CORL		972,297	1.438
77	117	HLK FIRECLAY		972.360	.063
78	150	DOWNER BANDED COOK		972,465	.125
79	127	ORK GRY FIRECLAY		972,589	.104
80	021	COMMON BANDED COAL		972.672	.083
		BED : LHP 20			
81	323	DEK GRY SH M/SS STKS		986.505	13.833
82	554	KYLIZED WASE SS		1024.088	37.583
	544	GRY MASS ES		1028.421	4.333
-	322	DAK GRY SH+1MTERSED SS		1033,338	4.917

LOCHE 1 [VASHY] [VAJ [Z 1: 26000.] ID= 3

PAGE :

LINE	1904					
	3000	E	Malian	COMMENTS	CUMULATIVE	UNIT
		2000			*********	
	124	ORK GRY SH			1851 471	120
66	021	COMMON BUNDER COAL			1051.754	17.633
100		SED:PC9 10 PC9 10			1051.734	1583
87	1000	DRK GRY SH			1052.504	70 70
88	100	DRK SRY SN			1083.212	30,750
89	444	COAL WISH LAYERS			1083.587	.708
		BED:PC9 20 PC9 20			1003.140	13/3
90		DAK GRY SH			1088.587	5.000
91		GRY MASS SS			1099.254	10.667
92	100	DRK GRY SH			1113.337	14.085
95	027	COAL MYSH LAYERS			1115.170	1-833
-		SEO : PCS 10 PCS 10				1 - 622
94	124	DAK GRY SH			1174,670	1.500
95	113	BLK SH W/COAL STKS			1110.253	1.583
96	323	DANK CALL SH MILE STATE			1733,420	13.167
97	554	MYLIZED MASS 35			1147.007	13.667
-	V6.56	ED FLOW O				12,901
98	124	DRK ERY SH			1147-420	.333
99	113	BLK SH H/COAL STAS			1147,837	,417
100	124	DRK GRY 5W			1149_256	1.417
107	554	XTLIZED MASS SE			1159.587	10.333
5.7	554	XTLIZED MASS SS			1169.420	9.833
	554	ATLIZED MASS SS			1216.420	49.000
C	554	XYLIZED MASS S\$			1221_420	3.000
	554	XTLIZED MASS 85			1257, 170	45,750
	021	COMMON BANGED COAL			1267.180	
	754	XTLIZED OTZ PEB CGL			1275.086	.010 5.706
	554	NTLIZED WASS SS			1303.503	
		XTLIZED OTZ PED COL			1310-503	30.417
	354	XTLIZED MARS IS			1317.003	7_000 6,500
111		XTLIZED ATZ PER COL			1330.086	5,718,6
545		DELAA O			13901000	13.083
1000		DRK GRY SH			1340.003	
W. C. C.		dry se wish alks			1343_503	9_917 3,500
		DRK GRY SH			1346.003	2.500
115 5		CRY SS W/SH STKS			7395.003	P. 000
116		DRK GAY SH			1358.086	3,083
117 0	70 0 1	COAL N/SH LAYERS			1355,419	_333
444 .		DIPC4 10			Insertation.	_349
118 1		DRIK GRY SIV			1358.961	.542
119 1	-	ORK GRY SH W/COAL STKS			1359.636	-875
120 0		COAL WISH STAS			1360.586	-750
121 0	2.3	CHANGE BANDED COAL			1361.867	1,281
122 0		CKE			1361,982	115
125 0		COMMON BANDED COAL			1362,795	.213
197 4		PEA 10				-1015
124 17		RK GAY SH			1362.920	.125
		RY SS			1371,420	8.500
		rk gry sh			1384.420	13.000
27 01		CHANN EVADED COUNT			1384.524	.104
	E BED	:PC4 20			100411-127	- 196

PAGE: 5 DAWER HAME: ISLAND SEESE CORPORATION
ALL DEPTHYTHICKNESS DATA IN FRET

LOG-I I DVMENT

1 CWA3 I 2 1: 24000.1 10= 1

LINE	CODE	ENGLIEN	COMENTS	COMMATTVE	WIT
				**********	***********
128	103	SH W/COAL STRE		1384 ,628	.104
129	021	CORNICH BANGED COAL		1370.024	5,396
	* 9	ED:PC4 20			
130	103	SH W/COAL STICS		1390.045	.021
131	354	DRE GRY HASS SOY SH		1392.337	2.292
132	543	GRY 85 W/SW STKS		1400.004	7.667
133	324	BRIC GRY MASS BOY SH		1434,421	34,417
134	021	COMMON SANDER COAL		1435_681	1.260
W. 4.C.		ED:PC3 10			
135	103	SH W/COAL STEE		7635.723	.042
136	750	COMEN SAMOED COAL		1435.775	.052
	* 9	E0:PCS 10			
137	124	DRE GAT EN		1435.017	2002
138	021	COMMON BANDED DOAL		1437.025	1,208
	* 1	ED:PC3 20			
139	034	DOME.		1437, 150	.125
140	021	COMMON BANDED COAL		1434.348	1.198
942	124	DRK GMY SH		1438,419	.271
142	021	COMICH BARDED COAL		1439.807	1,188
		ED:PC3 20			
- 43	103	SH W/COAL BTRS		1440.213	.406
144	021	CCHMON BANDED COAL		1660.421	. 208
		BD 19C3 30 PC3 30			4
145	124	ORK GRY SH		1458,254	17.533
146	560	CRY SE		1462,006	3.750

PAGE: 1 CANEN NAME: I SLAND CREEK COMPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG-[] [VHENT | 1 CVAL C 2 1: 24000.1 TO=

IDENTIFICATION SECTION

- 7. CLUB NAME: VINSAT
- 2. STATE LOCATION OF QUAD: VA
- 3. SCALE OF GLAS! 2-
- 4. 105 10 M: 4
- 5.1 URPUBLISHED RECORD. COMPANY OR AGENCY HAVE: ISLAND CREEK COAL COMPANY
- 4. DIVISION OF TRACT:
- 7. DRILL HOLE WANBER: L-114
- B. CONTRIBUTING COMPANY OR AGENCY: I SLAMD CREEK COAL COMPANY
- 9. CONTRIBUTING COMPANY DONN: L-114.

COORDINATES OF HOLE OR SECTION

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

CIVIL DISTRICT SMERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 15. COUNTY: BUCHAMAN
- 19. TOMENIP, MAGISTERIAL DISTRICT, M INCOMPONATED PLACES
- 20. GROUND LOCATION DESCRIPTION:

MEHOLE OR SECTION DESCRIPTION

- T. ELEVATION AT TOP OF HOLE OR SECTION: F 1986.90 DELL ANGLE O.
- 42. METHOD OF ELEVATION DETERMINATION: U
- 23. MANE OF PERSON LOGGING: JOY
- 24, YEAR ORILLED OR MEASURED: 1958
- 25. TOTAL DEPTH OF DRILL HOLE: / 1963.000
- 26. HED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERMOST TOENT LELABLE SED: NEW
- 28. CODE OF LOWERHOST IDENTIFIABLE BED: PCT
- 29.7 KIND OF RECORD: G
- 29.2 METHOD OF LITHO DESCRIPTION: \ ICCOM
- 30.1 UNITS OF MASURENENT: 1CFIF I
- 30.2 METHOD(S) OF REASUREMENT: I (THE)

DERSON(S) LAST HODLETTING THIS LOG

- 51. PERSON SUBHITTING LOG FOR ENTRY: KIN
- 32, DATE OF LOG SUMISSION (MM/DD/YYYY): 18
- LAST MODIFIED BY: DGL

DATE: 9/5/1992

USER DATA: 8.29' NET DOLL > 1.5'

2 CHIER MAME: ISLAND CREEK DORPORATION

PAGE:

ALL DERTHITHICKNESS DATA IN FEET

LINE	C006	ENGL 199	COMMENTS	DATE	UNET
					17
1		CASTED OR SURFACE		43.000	43_000
2	544	ES SEM TE		50,000	7.000
2	124	DRK GRY SH		57,417	7.437
- 4	246	CRY MASS 35		66,000	8.583
5	324	DRE GRY MAST SOY EN		154.547	53.667
6	323	DRK GRY SH W/SS STEE		166,000	11.333
7	322	DAK GRY SHINTERBEU SS		170.333	4,333
	544	GRY MAGE 15		171,500	1. 167
9	051	COMON SANDED COAL		172,667	1.167
	***	BEDEKEN TO KEN TO		177 174	6 440
10	324	DRX GRY MASE SOY SH		177.334	64667
11	544	GRY MASE SS		227-934	50,500
12	344	CRY HASS SE		234,501	6.667
13	544	SRY HARS CE	100 1000	244.751	10.250
14	544	GRY MASS BE	COAL STREE	256.334	13,585
15	124	DAK GRY SH		295,167	34 , 833
16	921	BED:ALY 10		293.250	.083
17	124	DRE GRY SH		275.300	.,250
18	021	COMMON SAMPED COAL		293,542	.042
14		BED:ALY 10		2131242	
19	124	DAK TIRY SH		298,917	5,375
20	543	GRY SS W/SH STKS		310.750	11.853
21	324	DRK GRY WASS SDY SH		321,479	10.729
22	021	COMMON BANDED COAL		322,917	1,438
		DED : MLY 20		CALL CO.	18.53
23	027	COAL WAN LAYERS		323.417	.500
	-	DED:ALY 20			
24	324	DAK GRY WASS SOY SH		360.917	37,500
25	021	COMMON BANDED COAL		361.000	280-
24	324	DAK GRY HASS SOY SH		367.417	6.417
27	544	GRY MASS IS		383.500	16.053
29	124	DRIC CAY SH		388.479	4.979
29	021	COMMON BANDED DOAL		390.000	1,521
		BEO;RYW 20 RVM 20			
	124	DAK GRY BH		390.417	,417
31	544	CRY MARS SE		445.000	54.583
25	749	GRY SS W/COAL SPARG		445.083	,083
	544	GRT MASS 95		492.416	47.333
	124	DRK GEY SH		508.999	76,583
7.7	324	DAK CRY MASS SDY SH		521.499	12.500
36	027	COMMON EANDED COAL		521.914	.417
-		SED; JAM 1D		- Diam (p. 22)	200
0.50	124	DAK GRY SH		521.999	,083
38		COMMON BANDED COAL		522.374	,379
200		BED: JAM 10			164
14.5	124	DAK ERY SH		522.832	.456
40	544	GRY MAGS ES		556.499	33.667
10	344	ONY MASS 53		566.166	9.667
	124	DEE GRY SH		567.458	1.292

PAGE: 3 GAMEN HAME: ISLAND CREEK COMPORATION
ALL DEPTH/THICKNESS DAYA IN FEET

LOG-E I IVASAY

1 DVA1 (2 1: 24000.1 10:

LINE	CODE	EMGL IEN	COMMENTS	CANULATIVE	UNIT
43	021	COMMON BANDED COAL		568,165	.688
		BED:JAW 20		3000177	
44	124	DRY DRY SK		566.229	.063
45	021	CONNON BANDED COAL		569,167	.938
1	*	HED: JAW 20		3847753	
46	324	DRK GRY MAKE EDY SH		577.250	8.083
47	544	GRY MASS SS		595.500	16,250
48	051	COMMON BANDED COAL		595.542	-042
49	544	DRY MASS ES		615.500	19.956
50	740	GRY COL		615.500	1,000
31	545	THY HASS SE		654.383	36.083
52	124	DRK GRY SH		565.333	10.750
33	324	DRK DAY MASS SDY SH		672,916	7.583
34	821	CONMON BANDED COAL		673,583	.667
	* 1	E0: 11 30 11 30		400	
55	324	DRE GRY MARS SOY BIT		573,000	4.617
54	544	ORT MASS SE		697.500	4.500
57	124	DAK GRY SH		669, 433	7.333
58	564	GRY MASS ES		696,300	6.667
50	124	DRK GRY MA		761.035	65.333
60	021	COMMON BANDED COAL		761.916	.083
		E01U28 10 USB 10			
61	324	DAK GAY WASS SOY SH		769,499	7.583
50	544	GRY MASS ES		784,499	17.000
63	544	THY HASS SS		799.999	13.500
64	113	BLK SH M/COAL STES		800.476	.417
65	124	DRE GRY SW		804.966	4.250
66	344	GRY MASS 55		557,499	52.833
67	344	GRY MASS \$5		578.466	21.167
68	124	DEK CEL SH		894,499	15.835
59	544	DET MASS SS		014.582	20.083
70	344	GRY MASS 15		946,082	31.900
71	124	DRK GRY SA		964,582	18.500
72	548	GRY ES W/SH STRE		968.999	4.417
73	124	DRK GRY SH		999,249	30.20
74	113	BLK SH W/COAL STKS		999,666	-417
	324	DRE GRY MASS MOY SH		1019.833	20. 167
	123	DRK GRY SH W/COAL STKS		1020.000	-167
	324	ORK GRY MASS SOY SH		1026.500	8.500
4-1	343	CHY SE W/SH RTKS		1071.500	45,000
	344	PE SEAN YELL		1062.000	70.500
	322	DRE CRY SH-INTERNED SS		1133.833	53.833
	544	ERY MASS SS		1153.666	17,833
52	150	COMMON BANDED COAL		1154.583	,917
-		ED;UNP 10 UNP 10		Dath.	3.44
	324	DRK GRY MARS SOY SH		1158.583	4.900
	544	CAY MASS SE		1195.416	\$6.833
85	021	COMMON BARDED COAL		1196.083	.667
64		ED:UNP 20		NAME OF	
86	124	DRK GRY SM		1196.125	.042

4 CHARGE HAME: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

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2 DWAY 1 2 1: 26000.3 10=

LINE	CODE	ENGLISH	COMMENTS	CUMULATIVE	CHIT
	******		***************************************	*********	********
87	021	COMMON SAMPED COM.		1196,583	.458
		MEDIUMP 20			15-19
88	124	CRK CRY HH		1203.250	6.667
199	544	GRY MASS SS		1223.000	19.750
93	126	DAK GRY MN		1268.500	45.500
91	544	GRY MASS SE		1294.353	25.833
92	021	COMMON BANDED COAL		1294.500	-167
		SED LURC 10 MRC 10			
93	124	DRK CAY SH		1294.667	.167
94	564	ERY MASS BE		1307.667	13.000
95	124	DRE GRY SH		1516,500	5.433
96	564	SRY MASS SE		1347.333	30.833
97	021	COMMON BANDED COAL		1347.563	.250
	4.1	MED:LNP 10 LNP 10			
72	324	DRK GRY MASS SOY SH		1372.062	24.479
99	150	COMMON BANDED COAL		1372.003	-024
	3.1	IEDELHP 20			
100	124	DRX GRY SH		1372.250	.767
101	021	EGISTON BANGED COAL		1373.688	1-438
		EDILIM 20		4	
05	124	DRE GRY SH		7374.667	.979
103	355	DRE GAT SHAINTENBED AS		1394 - 167	19.500
104	543	GRY SS W/SH STKS		1414-000	79.833
105	124	DRE CHY SH		1438_750	26.750
106	150	CONSIGN BANDED COAL		1439.853	1.083
17.7		ED:PC9 10 AC9 10		and the same	111000
107		DAK GRY SH		1443.500	5.667
108	543	GRY SE W/SN STKS		1465 .583	20.083
109	323	DRK GRY SH W/88 STKS		1479,750	76,767
110	126	DRK ERY SH		7682.167	2.417
111	322	DRK GRY SHILINTERRED SS		1561.000	18.833
112	124	DAK GRY SH		1516.500	15.500
113	124	DAK GRY SH		1523.500	7,000
	322	DRE GRY SHIMTERBED SS		1545 300	22.000
	114	NEK SH		1545,833	.333
116	9.00	DRK GRY MASS SOY SH		1549.833	4.000
117		KTLIZED SS W/SH STKS		1563,500	73.667
315		EDILGA D		13601300	121001
118	441	XTLIZED MASS 85		1647-583	84,083
112		NTLTZED STZ PEE CGL		1662, 583	15.000
120	734	XTLIZED OTZ PER CGL		1664.866	2,083
121	021	COMMON BANDED COAL		1004.791	-125
122		ITLIZED MASS SS		1669.916	5.125
123	021	COMMON BANDED COAL		1670.085	.167
124		ETLIZED MASS SS		1692.416	22.333
	554	KTLIZED MASS 35	OTZ PERS	1719.499	27_083
126		XTLIZED DIZ PER COL	WIT LCDS		
4.0		ED:LGA O		1721_632	2,333
5				1777 400	249
		COMMON BARDED COAL ENERGS 10 PCS 10		1722.409	-667

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LINE	2005	EMOT 13M	COMMENTS:	DUNULATIVE	UNIT
128	124	DRE SET SH		1725,582	3.083
129	027	COAL W/EH LAYERS		1726-082	.300
	*	BED:PCS 20		100	
130	124	ORK GRY SN		1724,499	.417
131	021	CONNON BANDED COAL		1727.499	1.000
		SED:PC5 20			
132	124	DOM GRT SH		1731.749	4.250
133	540	GRY 58		1790.416	58.667
134	124	DOK GRY SH		1790.999	.983
135	027	COAL W/SH LAYERS		1791-166	.167
		SED : PC4 20			
136	021	COMMON BANDED COAL		1791-499	-333
137	124	DRE GRY SH		1792.249	-750
138	027	COAL W/SH LAYERS		1793.332	1,083
63	in the	BED: PC4 20			1900
139	540	CRT US		1796.465	3.333
140	323	DRE GRY SH W/35 STKS		1837.457	40.792
141	021	CONNEN BANDED COAL		1837,478	.021
142	323	DRK GRY SH W/SS STKS		1840.770	3.292
143	150	COMMON BANDED COAL		1842.062	1.292
		SED : PE3 10 PC3 10			
146	124	DINE GRY SH		1842,166	.704
145	021	COMMON BANDED COAL		1842.187	.021
		ED:PC3 20		1,500	5770
140	124	DICK GRY SH		1842,229	.042
147	021	COMMON BANDED COAL		1843.206	979
148	123	DRE GRY SH W/COAL STEE		1843.396	.188
149	021	CONNON MANDED COAL		1864.104	-708
150	124	DRIC GRY SN		1844,125	-021
151	021	COMMON BANDED COAL		1344-167	.042
		ED:PC3 20		,,,,,,,,,	
192	127	DRU GRY FIRECLAY		1845.584	7.417
153	543	GRY SS W/SH STKS		1856.917	11.333
154	124	DRE GRY SH		1857-167	,250
155	021	ETHINON SAMEDED COM		1857.334	.167
	123	DRK GRY SN W/COAL STKS		1057.417	,063
157		COMMON BANDED COAL		1558,086	.667
156	322	DRE GRY SHOINTERNED SS		1668.554	10,500
159	021	COMMON BANDED COAL		1869.251	.667
150	524	DRE GRY MASS DDY SH		1884.918	17.667
161	124	DRK CAY SH		1905,710	18.792
	021	DOWNON BANDED COMI.		1906.127	417
		ED:PC2 10		42.1.21	3615
163	124	DAK CRY SA		1905.460	.333
164	021	COMMON BANDED CONL		1906.915	.438
-		ED:#C2 10		14-00/15/10	
165	324	DRK GRY MASS EDY SA		1931.666	24,790
166	025	CONNEW BANDED COAL		1933.005	1.417
	THOU WAY	EB:PG1 70 PG1 10		1122.003	14418
47	124	DRK GRY SH		1933,502	.417
01	12.0	AVE RAL MI		12391305	1415

PAGE:

6 DAMER MARE: ISLAND CREEK CORPORATION ALL DEPTHYTHICKNESS DATA IN FEET

SEREAL NUM: 101092686-003-3,00

LOSEL 1 LYHENT

1 IVAT (2 1: 24000.) 10-

TIME	CODE	SNGL I SN	COMMENTS	COMBATIVE	W15 F 2
165 169	200	GRY ES M/SH STKS HARD SE W/SH STKS		1936.919 1962.91 <i>9</i>	3.417

PAGE: I GLAMER HAME: ISLAND CREEK COMPORATION
ALL DEPTH/TH/CKNESS BATA IN FEET

LOG-1 1 TUNENT 2 TVAN T 2 1: 24000.7 70= 5

IDENTIFICATION SECTION

- I , GLIAO (LANE: YMEN'T
- 2. STATE LOCATION OF GUAD: VA
- 1. SCALE OF RUND; 2
- 4. LOG 10 #: 5
- 5,1 UNPUBLISHED MECORD. DOWNEY OR ASSENCY HAME: TELAND CREEK CORL CONDANY
- . DIVISION OF TRACT:
- 7_ DRILL HOLE HUMBER: L-117
- 8. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
- V. CONTRIBUTING COMPANY DOMN: L-117

COORDINATES OF HOLE OR SECTION

- 12.7 STATE CODE: VAS
- 12,2 STATE PLANE M/S: 3608689.74
- 12.3 STATE PLANE E/N: 10435713.85
- 15.1 COMPANY ERIS M/S: 20790.51
- 15.2 COMPANY GRID E/W: 16777.18

CIVIL PLATRICT MORRE LOCATED

- 17. STATE WHERE HOLE LOCATED! VA
- 18. COLWITT:
- 19. TOWNSHIP, MAGISTERIAL BISTRICT, OR INCOMPORATED PLACE!
- 20. GROUND LOCATION DESCRIPTION:

MENOLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE OR SECTION: F 1776-90 DRILL ANGLE D.
- 22. METHOD OF ELEVATION DETERMINATION: U
- 23. HAME OF PERSON LOGGING: JOY
- 24. YEAR DRILLED OR MEASURED: 1959
- 25. TOTAL DEPTH OF BRILL HOLE: F 1805.100
- 26. PED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERMINT IDENTIFIABLE BED: ALT
- 28. CODE OF LOWERHOST IDENTIFICABLE BED: PCS
- 27.1 KING OF RECORD; G
- 27.2 HETWOO OF LITHO DESCRIPTION: 11000E)
- 30.7 LWITS OF HEASUREMENT: 7(FIF]
- 30.2 METHODES) OF MEASUREMENT: TETHE !

PERSON(S) LAST HOD) FYING THES LOG

- 31. PERSON SUBRITTING LOG FOR ENTRY: KHE
- 32. DATE OF LOS SUMMISSION (MA/DO/YYYY): 10

LAST MODIFIED BY: OEL

DATE: 9/3/1992

USED DATA: 10.03" MET COME >= 1.5"

2 CHAMER MARE: ISLAND CHEEK CORPORATION ALL DEPYN/INICKNESS DATA IN FEET

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1 IVAL 1 2 1: 24000.3 (b-

CLIMULAT 2 VE LINTT Line coos ENGLISH. COMMENTS. 33,000 33.000 CASTAG ON BURFACE 46.000 13.000 2 322 DEK GRY SH-1HTERBED SS 3 124 98.633 52.033 DRE CHY EN 544 109,250 10.477 GRY MARE SS 124,000 14:750 5 124 DRE GRY SH 191.157 67.167 6 544 GRY MARS SE 7 124 31.667 222.834 DRK GRY SH 223.251 B 021 COMPEN BANDED COAL -417 " BED:ALY TO ALY 10 DRK OFF SH 227.334 6.083 7 124 10 322 DRX GRY EN-INTERSED 15 234.617 7.083 11 344 GRY HASS SS 257,917 23,500 12 124 DOK BRY SH 258,167 -80 COMMON BAMDED COME 239,300 1.333 13 021 BEDEALY 20 ALV 20 14 124 261,083 1.583 DRE CRY SA 15 564 GIT PLASE SS 270.646 9.583 16 126 DEE GRY SH 296.499 25.833 17 021 COMMON BANDED TOAL 296,555 -167 BED:RVM 10 RVM 10 18 124 278.497 1.833 DAK GET SH 19 344 GRY MASS 35 322.999 24,500 323,541 .542 20 114 BLE SH .708 ECHNICH BANDED COAL 524.240 21 021 # BED:RYW 20 324.374 .125 22 124 DRK DRY SH .500 23 021 COMPON BANDED COAL 324.574 · SED INVIN 20 74,000 24 344 398.874 GRY HAGE \$3 25 021 DOWNERS BANDED COSL 398.916 .042 26 749 GRY SE W/COML SPARS 803,416 4,500 27 544 14.833 GAY MASS SE 418.240 28 124 DRE CRY SH 461.749 43,500 29 021 DOWNON BANDED COAL 662.959 1-250 " BED: JAM 10 JAM 10 30 124 DAK SEY SH 471.582 6.563 31 546 CRY MASS SE 450.332 16.750 DRK GRY MASS SOT SH 11.792 32 324 500.124 33 021 501.749 1,625 COMMON BANDED COAL . PED: 19M 50 TWN 50 2.250 34 124 DOX CRY SH 503.799 35 564 GRY NASS 85 564,999 41.000 36 740 DRY COL 557.916 12.917 37 124 DAK SKY SK 565.999 6.083 38 323 DRE GRY SH W/88 STEE 581.666 15,667 39 027 COAL W/SN LATERS 581.916 .750 40 124 BOK GRY SH 590.166 8.250 51 021 DOWNER SANDED COAL 501.166 1-000 * BED: TIL 20 TIL 20 451 54 2,500 DRE GRY SH 573.666

1122.249

25.833

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ALL DEPTH/THICKNESS DATA IN TEET

LOGAL 3 TYWENT

83 543

ORY 55 H/SH \$785

3 EVAL (2 1: 24000.) 10=

CUMULATIVE UNIT LINE CODE ENGLISH . COMMENTS: ent traine estatementale accommendation entre en -43 544 GET MASS ES 609.999 16.333 64 543 DRY SE WASH STEE 10.567 520.666 45 324 DRK GRY HARS SOY SH 30,000 650.666 44 124 DRK CRY SH 664.291 33,625 47 021 DOWNEN BANDED COAL 684 . 624 .333 * BED: USB 10 USB 10 690.916 5,292 43 124 DIRE GRY SH 721.583 49 544 TURY MASS ES 30.667 50 124 DRK GEY 34 721.916 .333 31 021 SCHOOL BANDED COAL 722.666 750 * RED - USB 20 52 827 COAL W/SN LAYERS 722,999 .333 * MED:USE 20 .167 53 114 BLE SH 723.166 54 122 DEE OUT SHILLTERASED TO 754.999 13,633 55 544 SEY MADE SE 796.166 59.167 56 554 XTL: ZED WASE \$5 229.665 13.500 . BED: HEM O 57 554 ETZ PEE XTLIZED MASS SE 635.583 8.917 * BED: MRA. Q 58 021 COMMEN BANDED COAL 829.528 .375 - SED: STC 10 GYC 10 59 124 DOK GRY SH 839.543 .625 60 027 COAL W/SH LAYERS 839.916 .333 41 544 ORY MASS SS 870.999 31.003 62 124 DRIC CONT SM 684,582 15.583 43 323 DAK GRY SH M/88 STKS 573.749 9.167 64 322 DRK DRY SHINTERBED W 909,999 16.250 45 124 DOK DRY SN 929.999 20,000 66 325 DRE GRY SN W/SR STES 950.249 20.250 67 544 CHY WASS 35 957.DBZ 6.833 68 025 CONNON BANDED COAL 957.332 -250 * BED:LEB 10 LSB 10 60 124 DRK DAY SH 958,909 1.667 70 123 DRK GEV SH W/COAL STES 959.374 -375 71 021 COMMON BANDED COAL .292 939.666 * 68D:LS# 20 LE# 20 2.335 72 322 DRE DRY SH+1WTERDED SS 961,999 73 544 29.000 DAY MARE SE 990,999 74 322 DEE GRY SHATHFERBED SE 1006.999 10.000 75 344 DRY MARS SE 1022.666 15.667 76 566 HARD HASS SE 1032.666 10.000 77 323 DAK GRY SH W/SS STES 1049.333 16.667 78 114 BLK SH 1,250 1050.583 79 544 GRT HASS SE 1074,333 25.750 80 124 DRK ORY SH 1081.208 6.875 8T 021 DEPENDE BAIRDED COAL 1082.416 1.206 " BEB: UNP 20 UNP 20 32 544 GRY MASS BS 1096.416 14,000

4 OWNER MAME: ISLAND CREEK CORPORATION ALL DEPTNYTHICKNESS DATA IN FEET

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PAGE

I DWAI 1 2 1: 24000.1 10*

LIME DODE ENUL 13H COMMENTS CARALATIVE UNIT 124 DRE GRY SN 1137,582 15.333 85 322 DAK GET SK+INTERED SS 1155.562 18.000 66 124 DAKE BRY SH 55.750 1211,332 CONSTRUCT COAL 97 021 1211.624 .292 " BEDINEC ID HEC TO 85 124 DRK GRY SH 1218.332 7.208 89 545 CHY 35 W/SH STKS 1227.499 8.667 GRY MASS SS 90 544 1260.082 32,583 CONNECT SANDED COAL 91 021 1260.374 .293 " REDILUP TO LUP 10. 7.542 92 324 DEE GRY MASS SOY BH 1267.916 93 364 GRY HASE 35 1277.666 29,750 94 921 CONTROL BANDED COAL 1256.874 1.205 BED:LIP 20 LMP 20 1277.416 .542 BLK SH W/CDAL STKS 95 113 2,000 96 324 DRIC GRY RASS BOY SH 1301,416 97 327 DRK GRY EN-JEYERSED HE 1313.833 12,417 98 964 HARD HARS SS 1322.250 8.417 P 543 ERY SA U/SH STAS 1364.667 22:417 100 126 DHE GRY SH 1362.334 17:657 01 126 DRY SRY RII 1362.755 .417 102 114 BLK SN 1363.136 .385 103 021 CONSIGN BANDED COAL 1365 . 334 2.198 8801PCP 10 PC9 10 1408, 354 43.000 104 124 DIE GRY SH 105 021 COPPION BANDED COAL 1408.501 -167 106 124 DRK GRY SH 1448.251 79.750 107 554 XTLIZED MASS SE 1528,418 40,167 * BED:LGA 0 108 554 KTLIZED MASS SE OTZ PERS 1597.001 68,585 25.083 109 734 KILIZED OTZ PER COL 1622.084 110 554 XTLIZED MASS SE T641.001 18.917 111 754 XTLIZED OTZ PEB COL 1646.001 5.000 KTLIZED HASS IS OTZ PERS 112 554 1653.168 T-167 . RED:LOA O 113 021 .083 COMMON BANGED COAL 1653.257 * BED:PES 10 114 027 1653.376 -125 COAL WISH LAYERS COMMON GAMBED COAL 1653.036 .455 115 021 # BED:PC5 10 116 124 1484.581 .667 DAK BRY SH 117 563 ORY SE W/SH STYS 1856,001 1.500 118 124 1.250 DRE GRY 3M 1657.251 119 123 DRK GRY SH W/COAL STKS 1638.147 .896 120 021 COMMON GANDED COAL 1656.199 .052 * BED:PC\$ 20 127 124 1458,250 .031 DAK CRY SH 22 027 COAL HISH LAVERS 1658.501 .271 3 127 DRE GAY FIRECLAY 7658.543 .042 4 021 COPPROW BANDED COAL 1658.585 .242

LOG=1 1 [VMSWT 1 1VA3 1 2 1: 24000.1 ID= 3

LIM	e coe	ENGLISH	COMMENTS	CLANILATIVE	UNIT
100			***********	**********	**********
12	- 121	404,340,14			N. S. Addison
12		DRK GRY SH		1658, 752	.167
14	0 021	CONSIGN BANDED COAL MED: PCS ZO		1659.752	1,000
127	125			14011144	11594
121		DAK SRY SH		1662.169	22,417
125		GRY 88		1687.815	5.646
163	2 2 2 2	CONNICH BANGED COAL		1669.507	1.792
130		BED:PC4 10 PC4 10		1300	772
131	-	CAY 55		1715.190	25.583
121	100	CONMON BANDED COSL BED:PCA 20		1715.232	.042
132					
133	1.75	DRK GRY 3/		1715.878	.646
134	6.00	COMMON BANDED COAL		1716,232	.354
135		ORK GAY SN		1716.305	.073
136		CONSIGN EARDED DOAL		1716.347	549.
137	77.7	DRK GRT SH		1715.399	.052
133	40.00	COMMON BANDED DOAL		1716.926	-125
139	1.00	DRE GRY SH		1716.795	,271
194		COMMON BANDED COAL IEB: PCA 20		1717.316	,521
140		CC 25 25 25 25 25 25 25 25 25 25 25 25 25		0.004912	
41	540	DAX DRY SH		1798.524	1.208
142	027	CAY SS		1736.191	17-667
143	124	GOAL W/SH LAYENS		1736.358	-167
144	124	DRK GRY SH		1737.941	1.583
145	540	ORK GRY MASS EDY SH		1750.941	13.000
146	124	CRY SE		1763.691	12,750
147	121	DRK DAT SH		1774.379	10,688
141		COMMON BANDED COAL		1775.629	1.250
148	126	D:PC\$ 10 PC\$ 10		The same	7,5429
149	021	DICK CRY SM		1775,733	-104
· (mg		COMMON BANDED COAL DEPCS 20		1777-546	1.813
150		DRK GRY FIRECLAY		6.01.1646	1.000
		COMMON BANDED COAL		1777.609	-063
	124	DRK GRY SH		1778.432	.823
1		CONTROL SANDED COAL		1778.620	-166
1,00	. 00	D:PC3 20		1779.943	1.323
154		DRK SAY SH		17 - 21 - 21	W. 5 - 2
1000				1780.162	.219
126		COMMON BANDED COM. D:PC3 30 PC3 30		1780.777	615
156		7 (a) 4 (b) 5 (c) 6 (c) 6 (c) 6 (c) 6 (d) 6 (d)		-6313316	
130	.20	DAK GRY SH		1805.027	24.250

4 DAMER HAME: ISLAND CLEEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LOG-1 1 TVNSNT 1 TVAT 1 2 1: 24000.1 10:

LINE	CODE	ENGLISH COMMENT	CAMPATIVE	UNIT
86	124	DEK CAY SH	922,381	18.583
57		COMMON BANDED COAL	924.998	2.417
	- 1	BED HARC TO LAC TO		
88	124	DAK BRY SH	926.081	1,083
89	023	COAL M/SOME STES	926-831	.750
		BED: WIC 20		
90	023	COAL W/BONE ETKS	927,081	.250
91	034	BONE	927,164	_083
		RED: MC 50		
92	324	DEK CRY MASE SOY SH	929.247	2.083
93	153	DRK THY SH W/COAL STEE	929.580	.333
94	324	DRK GRY MASS SOV SN	934,997	7.417
73	124	ORK GRY SN	937.664	-567
96	021	CONTROL RANDED COAL	937.E31	.167
97	324	DANK OUT HASS SOT SH	949.831	12.000
98	543	GRY SS W/SN STKS	982.831	33,000
92	124	DRC CRY SN	984.164	1.333
100	021	COPPION BAILDED CONL	994.997	.033
20.2		SEDILHP 10		1,02
101	023	COAL W/BOME STKS	786.330	1.333
1.55		BED:LNP 10	(44:301	11925
102	749	GRY SS W/COAL SPARS	995.991	9.567
103	124	ORK GRY SH	999.164	3.167
104	123	ARK DRY SK W/COAL STK!	900,331	.167
105	021	COMPON BANGED COAL	1000_598	1,667
163	The same of the same of	SEDILLIF 20 LHP 20	1000.590	1,007
104	124	DRE GRY SA	1004,415	3.417
107	324	ORK GRY MASS SOY SH		
108	553	KTL1250 88 W/S# STK6	1006.748	2.333
109	124		1067 .748	61.000
1.8.000	N-71	DRIC DRY SH	1072.331	4.583
110	021	COMMON BANNER COAL	1074.914	2.583
440		PED:PC9 10 PC9 10	Charles See	2.44
to the same of the	124	DRY GRY SH	1077.414	5.500
0.00	156	ORK DRY SH	1078.247	,813
113		OWN CAY SH W/COAL STICE	1060.664	2,417
174		DRE COY SN	1082.581	1,917
115		DRE GRY EN WES STES	1107-414	24.833
116		COMMON RANGED COAL	1105.051	.667
-		PED 1FC9 20	1100 000	10.00
177	025	COAL WINDHE ETKS	1108.581	.500
100		HED:PO9 20	0.00	4.7
118	7 7	DAK DRY SN W/93 STES	1120.061	11.500
119	Tel. 2011	DAK GRY SN	1130.498	10.417
120		DAX GRY MASS SOY SH	1144.081	13.583
121	-	DRK GRY SH W/SS STKS	1174 .081	30.000
132		GRY S5 W/SH STKS	1182,498	8_617
123		DRE GRY SN	1204,498	22.000
124	554	XTLIZED MASS 68	1204.915	.417
		ED LOA D		
10	323	DRK ORY SH W/50 STES	1212.582	7.667

MAGE: 5 CAMER MANE: ISLAND EREEK CORPONATION ALL DEPTN/THICKNESS DATA IN FEET

LOG-6 1 (VMS2/T) DVAT 1 2 1: 26000.7 ID= 72

LIM	CODE	ENGL 13H	COMMENTS	DUMULATIVE	LIKIT
-	240			a Design 1 and	200
125		UND NASS SS		1289.062	76.500
127		ED MASS SS		1291,499	2.417
125		ED HASS SE		1312.566	21.167
129	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M BANDED COAL		1312.749	.063
730		EO HASE SE	Grand Warrier St. or St.	1339_166	26.417
131		ED MASS 85	PES AND COAL	1350.583	11-437
132		ASE 88	the action of	1353,083	2.500
133		ED MAGE SS	PEE AND COAL	1354 .291	7.208
200	* 860: (04	i 0		1200	
134	A SECTION AND ALL AND A SECTION AND ADDRESS OF THE PERSON AN	IN BANDED COAL		1356.749	4.458
	* BEO:PCS	74		W-0.12 C-27	
135		M/COAL STKS		1359.852	.083
	* 10:00			200	55 Say
136	Carrier Committee of the Committee of th	SA WER SOA EN		1373.582	14.720
137		B W/CDAL SPARS		1427.232	54,250
132		AY SN		1422,499	-667
139	4-1	N RANDED COAL		1432,269	3,750
	* WED: PC4	10		Sections	
140	D34 BOWE			1432,332	.083
	* WED:PC4	10			
141	021 00000	M SAMOED COAL		1435.457	3.125
	* BED:PCA	20		143.40	
142	030 IMPUR	E COAL		1435,540	, 083
	· gen;PC4			Shibor	
143	749 GAT S	W/COAL SPARS		1437.373	1,633
744	749 BRY 6	S W/COAL SPARS	SH STKS	1456.498	19.125
145	021 00090	M BANDES COAL		1456.540	-042
	* BED:PCS	10		T. T. SW.	
744	114 BLE 9	и		1456.603	.043
147	OS1 COMMO	M SAMOED COAL		1457.874	1.271
	" BED : PC3	10			
748	114 BLK 6	и		1457,999	- 125
149	021 COMMO	M BANDED COAL		1459.530	1.531
	* BED:PCS	20			
150	116 BLK S	X .		1459-572	-042
151	021 001910	N RANGED COAL		1460.739	1.167
132	174 BLK S	K		1460.791	.052
153	054 COMMO	N SANDED COAL		1462_239	1,648
	* RED:PE3	20			
154	114 BLE 5	11		1462.406	,167
155				1464-823	2.417
156		ASS 65		1468.156	3.333

PAGE: TOLHER MANE: ISLANG CREEK CORPORATION
ALL DEPTH/THICKNESS GATA IN FEET

LOG-() (WANT 1 IVE) (2 1; 24000.1 io- 7)

IDENTIFICATION SECTION

- 1. GLOO MAKE: VINEST
- E. STATE LOCATION OF GUAD: VA
- 3. SCALE OF QUAD: 2
- 4. LOS ID #: 73
- 5.1 UNIVERLISHED RECORD. COMPANY OR AMERICY WANTE: INLAND CREEK COMP
- 6. DIVISION ON TRACT!
- 7. DRILL HOLE HUMBER: 1-223
- 3. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP.
- 9. CENTRIBUTING COMPANY DONG: L-225

COORDINATES OF MOLE OR SECTION

- 12.1 STATE COOR: VAS
- 12.2 STATE PLANE N/S: 3409387_85
- 12.3 STATE PLANE E/N: 10450790.43
- 15.1 COMPANY GRID N/S: 21630.00
- 15.2 COMPANY ORID E/W: 21535.00

CIVIL BISTRICT WERE LOCATED

- 17. SYATE WHERE HOLD LOCAYED: VA
- 18. COUNTY: BUCHANAM
- 10. TOWNERSP. MADISTERIAL DISTRICT, OR INCOMPORATIVE PLACE: VANSAAT
- 20. GROUND LOCATION DESCRIPTION: SHAFF A

MENDLE OR SECTION DESCRIPTION

- "T. ELEVATION AT TOP OF MOLE ON SECTIONS ?
- 1445.00 DRILL ANGLE U.
- 2. METHOD OF ELEVATION DETERMINATION: 9
- 23. KANE OF PERSON LOGGING: CHUNCH
- 24. YEAR DRILLED OR NEADARED: 1974
- 25, TOTAL DEPTH OF DRILL WOLE: # 1465.000
- 26. BED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERMOST IDENTIFIABLE BED: JAN
- 28. CODE OF LOWERHOST IDENTIFIABLE MEDI PCZ
- 29.1 KIND OF RECORDS C
- 29.2 METHOD OF LITHO DESCRIPTION: ILDODES
- 30.1 LINETS OF HEASUREMENT! TEFTE I
- 30.2 HETHOD (\$) OF MEASUREMENT: 1(THE)

PERSON(S) LAST MODIFYING THIS LOS

- 31. PERSON SUMMETTING LOG FOR EXTRY: DAL
- 32. DATE OF LOS BURNESSION (NO/CO/TYTY): 3/2/67

LAST MODIFIED BY: DCL

DATE: 9/3/1992

USEN DATA: 18.67" NET COAL DA 1.5"

2 CHAMER MAME: ISLAMO CREEK COMPONATION ALL DEPTHYTHICKNESS GATA IN FEET

LOC-T 1 CVASAT

PAGES

1 IVAL E 2 1: 24000.1 10= 73

LINE	DODE	ENGLISM	COMMENTS	CUNULATIVE	DELT
****			**********	*******	*******
	420	Short in a factor of		Works	10.00
3		CASING OR ELEFACE		40,000	40.000
2		CRY WASH AS		66.667	25.567
3		DIEK BRY 100		72.834	6.167
4	DET	COMPON MARDED COM.		74.417	1,583
- 2		BEDITAM SO THM SO			1.00
5	354	CRE GRY MASS 30Y SH		20.417	6,000
5	544	GRY MASS SS		119.834	37.617
7	4.44	GRY SE MYCOAL SPARS		124.334	4.500
		DRK GRY SH		136.334	12.000
9	343	GRY 53 W/SH STES		144_334	3,000
10	124	DRX GRY SX		159.501	15.767
11	-	COMPANY PANDED CONT		160.251	.730
		MED:TIL 20 TIL 20		1.5	char
12	77.7%	DRE GRY SM		162.251	2.000
13		COMMON BANDED COAL		163.084	.833
		GEDITIL 30 TIL 30		78-9	
16	-	DRK GRY SH W/SE STKS		167.334	6.250
15		CRY ES W/SH STES		180.084	10.750
16	324	DRE DRY MASS SOY SH		188.251	8,167
17	124	DRK GRY SK		260.251	72.000
18	114	ME SH		260.751	.500
10	021	DOMESTIC CONT		261,251	.500
		BED:USB 10 UEE 10			
50	124	DRK GRY SH		267.918	6.667
21	543	THE MALE STEE		329.251	61,333
55	124	DAK ORY SH		405.251	76,000
23	021	CORNECT BANDED COME		405,751	.500
		SED: QVC 10			
24	124	DRK SMY 3H		405.918	1167
25	027	CTONNEM BANDED COMIL		107,668	1.750
26	UZ.	GOME.		407.751	.085
	*	BED: EYC 10			
27	564	GRY MASS SS		427-751	20.000
28	749	GAT SE W/COAL SPARS		436.251	8,500
29	124	DEC CET SH		454.584	18,333
30	543	GRY AS M/SH BIKS		493-001	38.417
31	021	COMMON BANDED COAL		493,416	-617
		BEDINER 20 MW 20			
	124	DEX GRY SN		494.418	1.000
	324	DRE GET HASS SOY SH		503.418	9.000
34	323	BRE GRY SH U/SS STRS		512.251	8.833
35	021	COMMON BASIDED COAL		102.501	-250
		BED:LSQ 10 LSG 10			
	124	DRK CRY SH		522.501	10.000
	543	DRY ME WISH STEE		602.501	80.000
	322	DAK DRY SH D/SS STKS		615.564	13.083
39	021	COMMON BANDED COAL		616_001	-417
		160:UNP 10 UNP 10			
	324	DRE DRY MASS SOY SH		620.418	4.617
41	944	GRY NASS SS		639.835	19.417

PAGE:

3 DANER MAME: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FREY

LOGAL 1 CARELL 1 LAN LS 1: 500001 104 12

42 B21 COMMINA MANDER COAL **BEDILIPP 20 UMP 20 43 124 DRX GRY SHI 44 124 DRX GRY SHI 45 544 DRX GRY SHI 46 125 DRX GRY SHI 46 126 DRX GRY SHI 47 021 COMMINA MANDER COAL **BEDILIPP 10 NW 10 48 126 DRX GRY SHI 48 127 DRX GRY SHI 48 127 DRX GRY SHI 48 128 DRX GRY SHI 48 128 DRX GRY SHI 48 129 DRX GRY SHI 59 124 DRX GRY SHI 51 124 DRX GRY SHI 52 021 COMMINA MANDED COAL 53 124 DRX GRY SHI 55 021 COMMINA MANDED COAL 56 543 GRY SHI 57 021 COMMINA MANDED COAL 57 021 COMMINA MANDED COAL 58 124 DRX GRY SHI 59 124 DRX GRY SHI 59 124 DRX GRY SHI 50 124 DRX GRY SH 51 1.49 20 LIP 20 LI	LINE	CODE	ENGLISH	COMMENTS	COMMATTHE	UNIT
### ### ### ### ### ### ### ### ### ##	****	*******			**********	*******
43 124 DEK CHY MARK 58Y SH 44 326 DEK CHY MARK 58Y SH 554 AT ST 554 AT ST 554 AT ST 554 AT ST 655 AT ST 656 AT ST 657 AT ST	42				40.918	1.083
44 326 DRK GRY WARE SBY SH 45 544 ORY NAME SBY 46 124 DRK GRY SH 47 021 COMMON BANDED CORL 48 124 DRK GRY SH 49 324 DRK GRY SH 49 324 DRK GRY SH 49 324 DRK GRY SH 50 544 SRY MASS SBY SH 51 124 DRK GRY SH 51 124 DRK GRY SH 52 021 COMMON BANDED CORL 48 124 DRK GRY SH 51 124 DRK GRY SH 52 021 COMMON BANDED CORL 53 124 DRK GRY SH 54 326 DRK GRY SH 55 021 COMMON BANDED CORL 55 321 DRK GRY SH 56 543 DRY SE M/ER STYS 57 124 DRK GRY SH 57 124 DRK GRY SH 58 544 DRK GRY SH 58 545 DRK GRY SH 58 546 DRK GRY SH 58 547 DRK GRY SH 58 548 DRK GRY S	1.0	William III				2 20.0
46 544 DRY DRY BRY SH	1000				25.00	1 may 1 mg 1
44 124 DEK BET SH 47 021 COMMON BANDED COAL 48 124 DEK BET SH 48 124 DEK BET SH 48 125 DEK BET SH 48 125 DEK BET SH 48 125 DEK BET SH 48 126 DEK BET SH 50 544 BEY MASS SE 50 544 BEY MASS SE 51 124 DEK BET SH 51 124 DEK BET SH 52 021 COMMON BANDED COAL 53 124 DEK BET SH 54 326 DEK BET SH 55 321 DEK BET SH 56 326 DEK BET SH 57 021 COMMON BANDED COAL 57 021 COMMON BANDED COAL 58 326 DEK BET SH 58 326 DEK BET SH 58 327 DEK BET SH 58 326 DEK BET SH 59 124 DEK BET SH 59 125 DEK BET SH 59 124 DEK BET SH 59 125 DEK BET SH 59 126 DEK BET SH 59 127 DEK BET SH 59 128 DEK BET SH 59 129 DEK BET SH 59 120 DEK BET SH WICKLE STEE 59 120 DEK BET SH 59	175	-				
### CONTROL BANDED COAL ### SECURING BANDED COAL ### SECURING TO NUT 10 10 ### SECURING TO NUT 10 11 11 11 11 11 11 11 11 11 11 11 11	7.5	0000	4.4			
*** SED INNO** 10 NIO*** 10 42 124		100				4.762.71
124	47	4.5	7 - 144 (C) 17 (665.334	+750
### 19 324 DRE GRT MASS SOY SH			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		deal or h	D-MS
50 544 BRY MARS BY 706,665 11.167 51 124 DRK GRY SH 764,665 55.000 52 021 COMMON BANCED COAL 769,751 2.563 53 724 DRK GRY SH 776,918 .667 53 724 DRK GRY SH 778,918 .30.000 55 021 COMMON BANCED COAL 783,668 .750 55 021 COMMON BANCED COAL 783,668 .750 56 533 DRY SE MARS STAK 815.897 30.167 57 021 COMMON BANCED COAL 814.335 .500 58 322 BRK GRY SH 815.897 30.167 59 124 DRK GRY SH 81 850.418 12.000 60 124 DRK GRY SH 850.418 12.000 61 021 COMMON BANCED COAL 833.005 1.667 61 021 COMMON BANCED COAL 833.005 1.667 62 53 525 BRC GRY BRS SH 853.005 1.000 62 124 DRK GRY SH 850.418 12.000 63 553 ST 11.250 SE M/SH STAKS 80.605 5.000 64 126 DRK GRY SH 850.502 .417 65 543 GRY SE M/SH STAKS 80.605 60.000 64 126 DRK GRY SH 850.502 .417 65 543 CRY SE M/SH STAKS 80.605 60.000 64 126 DRK GRY SH 80.605 COAL 967.232 .750 66 124 DRK GRY SH 80.605 COAL 967.232 .750 67 124 DRK GRY SH 80.000 STAKS 999.002 5.000 67 125 DRK GRY SH 80.000 STAKS 999.002 5.000 67 126 DRK GRY SH 80.000 STAKS 999.002 5.000 67 127 STAK GRY SH 80.000 STAKS 999.002 5.000 67 128 DRK GRY SH 80.000 STAKS 999.002 5.000 67 129 DRK GRY SH 80.000 STAKS 999.002 5.000 67 124 DRK GRY SH 80.000 STAKS 999.002 5.000 67 125 DRK GRY SH 80.000 STAKS 999.002 5.000 67 126 DRK GRY SH 80.000 STAKS 999.002 5.000 67 127 STAK SHY SHY STAKS 999.002 5.000 67 128 DRK GRY SH 80.000 STAKS 999.002 5.000 67 129 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 124 DRK GRY SH 80.000 STAKS 999.002 5.000 67 125 DRK GRY SH 80.000 STAKS 999.002 5.000 67 126 DRK GRY SH 80.000 STAKS 999.002 5.000 67 127 DRK GRY SH 80.000 STAKS 999.002 5.000 67 128 DRK GRY SH 80.000 STAKS 999.002 5.000 67 129 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 67 120 DRK GRY SH 80.000 STAKS 999.002 5.000 68 100 DRK GRY SH 80.000 STAKS 999.002 5.000 68 100 DRK GRY SH 80.000 STA					The second second	
124						1.75
\$2 021 COMPAN RANGED COAL * REPORT SIL * R	100	100			A Second Control of the Control of t	
*** NBD / LBC 10 LBC 10 33 124 DBC CAT EN						and the second
13 724 DRK GRY RH	52		C TOTAL PROPERTY OF THE PARTY O		769.251	2.543
\$2.00						
Test			DEK CRY BH		0.000	
### SEPSTANCE 20 LINE 20 36 543			DAX GRY WASS JOY SH		782,918	13.000
\$6 543 BRY SE MYER STOCK 810.895 30.167 37 021 COMMEN RANDED COAL 814.335 .500 **********************************	55	971	Control of the Contro		703.668	.750
### 1021 COMMON MANCED COAL ### REDILIN (0 LINE 10 58 324 ORK CRY SH 618.418 4.083 59 124 DAK CRY SH 625.418 1.000 61 021 COMMON MANCED COAL ### 1000 62 021 COMMON MANCED COAL ### 1000 63 353 HTLIZED SE W/SH EYES 63 684 085 5.000 64 124 DAK CRY SH 65 025 COMMON MANCED COAL 65 021 COMMON SANCED COAL 65 021 COMMON SANCED COAL 66 021 COMMON SANCED COAL 67 021 COMMON SANCED COAL 68 022 SH SH W/SH STRE 69 022 7,750 60 124 DAK CRY SH 60 124 DAK CRY SH 60 124 DAK CRY SH 60 125 DAK CRY SH 60 126 DAK CRY SH 60 127 DAK CRY SH 60 128 DAK CRY SH 60 128 DAK CRY SH 60 128 DAK CRY SH 60 127 DAK CRY SH 60 128 DAK CRY SH 60 128 DAK CRY SH 60 127 DAK CRY SH 60 128 DAK CRY SH 60 127 DAK CRY SH 60 128 DAK			EDINE 20 MC 20			
**************************************	56	7.7	GRY SE U/SE STICE		813.833	
\$8 324 URK CRY MASS EDY SH \$50.418 4.083 \$9 124 DAK SRY SH \$50.418 12.000 \$60 124 DAK SRY SH \$1.000 \$61 021 COMMON SAMPED COAL \$33.085 1.667 ***BESILIP 20 LLP 20 \$23 525 DAK GRY MASS SRY SH \$58.085 5.000 \$43 553 TILIZED SR WISH STAS \$26.000 \$44 000 \$45 DAK CRY SR \$40.000 \$45 DAK CRY SR \$40.000 \$45 DAK CRY SR \$40.000 \$46 DAK CRY SR \$40.000 \$40 DAK CRY SR \$40.000 \$4	37	021	CONNEN SANDED COAL		814.335	.500
\$7 124 DAK SRY SH		* 4	NED:LHP TO LHP TO			
SOL 124 DIK GRY SH	58	324	TIRK GRY MASS BOY SH		818.418	4,083
67 021 COMMON RAMBED COAL *** RESILENT 20 LEP 20 57 325 DEC CRY PLASS SOY SH 53 353 ETILIZED SE DYSM ETES 58 40.005 5.000 64 126 DEK URY SH 55 43 GRY SR W/SH STES 50 005 65 021 COMMON RAMBED COAL 57 124 DEC CRY SH 66 124 DEC CRY SH 67 125 DEC CRY SH 67 125 DEC CRY SH 67 126 DEC CRY SH 67 127 DEC CRY SH 67 128 DEC CRY SH 67 129 DEC CRY SH 67 129 DEC CRY SH 67 120 DEC CRY SH 68 120 DEC CRY SH	59	124	DRK SRY SH		850,41E	12,000
### ### ### ### ### ### ### ### ### ##	50	124	DUK GRY SH		E51.418	1.000
\$7 325 ORE CRY MASS SDY SH \$53 MYLIZED SE M/SH EYES \$84.085 \$4.000 44 124 DRK URY SH \$85.502 .417 45 543 GRY 95 M/SH SYES \$90.502 20.000 55 021 CRY CRY SH \$85.605 CALL \$90.502 20.000 57 124 DRK GRY SH \$924.252 17.000 68 543 GRY SS M/SH SYES \$954.002 29.750 60 124 DRK GRY SH \$959.002 5.000 70 125 DRK GRY SH \$959.002 5.000 70 125 DRK GRY SH \$951.335 2.333 71 124 DRK GRY SH \$964.335 3.000 72 126 DRK GRY SH \$977.502 33.167 73 593 XYLIZED SS M/SH SYES \$1021.752 24.250 8601LBA 0 74 124 DRK GRY SH \$1022.752 1.000 75 326 ORK GRY MASS SDY SH \$1028.835 5.083 76 553 XYLIZED MASS SS \$1148.666 108.333 76 554 XYLIZED MASS SS \$1148.666 108.333 76 521 COMMON BANDED COAL \$1157.543 8.083 80 021 COMMON BANDED COAL \$1157.545 3.083 80 021 COMMON BANDED COAL \$1157.546 1157.543 8.083 80 021 COMMON BANDED COAL \$1157.960 .417 81 750 XYLIZED COAL \$1162.752 4.792 1 021 COMMON BANDED COAL	61	021	COMMON SAMOED COAL		855.085	7.667
\$3 533 KTLIZED SE N/SN STKS \$4 08K 087 SN \$5 543 GET SE N/SN STKS \$906.502 20.000 \$5 021 COMMENT BERRED COML \$60.000 907.232 .750 \$60.000 10 PCS 10 \$7 124 DRK GRY SN \$7 124 DRK GRY SN \$7 124 DRK GRY SN \$7 125 DRK GRY SN \$7 125 DRK GRY SN \$7 125 DRK GRY SN \$7 126 DRK GRY SN \$7 127 DRK GRY SN \$7 128 DRK GRY SN \$7 10000 \$7 10000 \$7 10000 \$7 10000 \$7 10000 \$7 10000			EDILHP 30 LIP 20			
CA 126 DRK DRY SH STKS SPANSH STANSH STKS SPANSH STKS SPANSH STKS SPANSH STKS SPANSH STKS SPANSH STANSH STAN	57	325	DRE OUT MASS SOY SH		638.085	5.000
## 543 GRY 95 W/SH STKS 906.502 20.000 ## 665 D21 COMMON BANDED COME ## 656 D21 COMMON BANDED COME ## 657 D21 COMMON BANDED COME ## 658 D21 COMMON BANDED COME ## 659 D22 COMMON BANDED COME ## 650 D21 COMMON BAND	63	533	NTLIZED SE W/SM ETKS		586.085	48.000
SECTION SECT	4	126	DRK URY SH		885,502	.417
* SEB:PCV 10 PCS 10 57 124 DRK GRY SM	45	543	GRY 95 W/SH STKS		906.502	20.000
57 124 DRK GRY SM	65	021	DOMEST BANDED COME		907.232	.750
68 543 CBY SB L/SH STRE		* 6	EB:PC9 10 PC9 10			
124 DRX GRY SR 959.002 5.000	57	124	DRK GRY SM		924,252	17,000
70 125 DRK GRY SN WYCDAL ETES 951.335 2.333 71 124 DRK GRY SN 964.335 3.000 72 124 DRK GRY SN 997.502 33.167 73 593 XTLIZED 66 W/SN 57KB 1022.752 24.250 #BEDILDA 0 74 124 DRK GRY SN 1022.752 1.000 75 324 ORK GRY MASS SDY SN 1028.835 5.083 76 553 XTLIZED 95 N/SN STKS 1039.835 11.000 77 554 XTLIZED 95 N/SN STKS 1039.835 11.000 77 554 XTLIZED MASS SE 1149.460 1.792 79 554 XTLIZED MASS SE 1149.460 1.792 79 554 XTLIZED MASS SE 1157.543 8.083 80 021 COMMON RANDED COAL 1157.543 8.083 80 021 COMMON BANDED COAL 1157.543 8.083	68	543	CAY SE WISH STEE		954.002	29.750
77 124 DIR SKY SM 964.335 3.000 72 124 DIR GRY SM 997.502 33.167 73 553 XTLIZED 66 M/SM 57KB 1021.752 24.250 #BEDILBA 0 74 124 DIRK GRY SM 1022.752 1.000 75 324 ORK GRY SM 1028.835 6.083 76 553 XTLIZED 65 M/SM STKS 108.835 11.000 77 554 XTLIZED MASS ST 1148.666 108.833 78 021 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS ST 1149.460 1.792 79 554 XTLIZED MASS ST 1157.543 8.083 80 021 COMMON BANDED COAL 1157.960 .417 61 750 XTLIZED COAL 1157.960 .417 61 750 XTLIZED COAL 1163.335 .583	69	124	THE GRY SE		959.002	5.000
77 124 DIR SKY SM 964.335 3.000 72 124 DIR GRY SM 997.502 33.167 73 553 XTLIZED 66 M/SM 57KB 1021.752 24.250 #BEDILBA 0 74 124 DIRK GRY SM 1022.752 1.000 75 324 ORK GRY SM 1028.835 6.083 76 553 XTLIZED 65 M/SM STKS 108.835 11.000 77 554 XTLIZED MASS ST 1148.666 108.833 78 021 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS ST 1149.460 1.792 79 554 XTLIZED MASS ST 1157.543 8.083 80 021 COMMON BANDED COAL 1157.960 .417 61 750 XTLIZED COAL 1157.960 .417 61 750 XTLIZED COAL 1163.335 .583	TO	123	DRK GRY SN WYCOAL STES		951.335	2,333
73 593 XTLIZED 66 W/SW 57KB 1021.752 24.250 ***BEDILBA 0 74 124 DRK GRY SW 1022.752 1.000 75 324 ORE GRY WASS SDY SW 1028.835 6.083 76 553 XTLIZED 65 W/SW 57KS 1039.835 17.000 77 554 XTLIZED MASS ST 1148.666 106.833 78 021 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 20 021 COMMON BANDED COAL 1157.960 .417 61 750 XTLIZED COE 1162.752 4.792 1 021 COMMON BANDED COAL 1163.335 .583	71	124	DISK ERY SW		964.335	3.000
### ### ### #### ###### ###### ###### ####	72	124	DZE GRY SH		997.502	33,167
74 124 DRK GRY SN 1022.752 1.000 75 324 ORE GRY MASS SDY SN 1028.835 5.083 76 553 XTLIZED SS M/SN STES 1039.835 17.000 77 554 XTLIZED MASS SS 1148.668 108.833 78 021 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 80 021 COMMON BANDED COAL 1157.960 .417 81 750 XTLIZED COE 1162.752 4.792 1 021 COMMON BANDED COAL 1163.335 .583	73	553	XTLIZED 66 W/SH STKE		1021.752	24.250
75 324 ORE DRY WASS SDY SW 1028.835 5.083 76 553 XTLIZED SS M/SH SYES 1039.835 17.000 77 554 XTLIZED MASS SS 1148.666 108.833 78 DZ1 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS ST 1157.543 8.083 80 DZ1 COMMON BANDED COAL 1157.960 .417 81 750 XTLIZED COAL 1162.752 4.792 1 021 COMMON BANDED COAL 1163.335 .583		- 1	ED:L94 0			
76 553 XTLIZED \$\$ M/SH SYES 1039.835 17.000 77 554 XTLIZED MASS SS 1148.666 108.833 78 D21 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 80 D21 COMMON BANDED COAL 1157.960 .417 81 750 XTLIZED COAL 1162.732 4.792 1 021 COMMON BANDED COAL 1163.335 .583	74	124	DRK GRY SH		1022.752	1.000
76 553 XTLIZED \$\$ M/SH SYES 1039.835 17.000 77 554 XTLIZED MASS SS 1148.666 108.833 78 D21 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 80 D21 COMMON BANDED COAL 1157.960 .417 81 750 XTLIZED COAL 1162.732 4.792 1 021 COMMON BANDED COAL 1163.335 .583					1028.835	6.083
77 554 XTLIZED MASS ST 1148.666 108.833 78 021 COMMON SANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 80 021 COMMON SANDED COAL 1157.960 .417 61 750 XTLIZED COS 1162.732 4.792 7 021 COMMON SANDED COAL 1163.335 .583	76	553	XTLIZED SS W/SH STES		1039.835	17.000
78 D21 COMMON RANDED COAL 1149.460 .792 79 554 XTLIZED MASS SE 1157.543 8.083 80 D21 COMMON BANDED COAL 1157.960 .417 81 750 XTLIZED COE 1162.732 4.792 1 021 COMMON BANDED COAL 1163.335 .583			XTLIZED HASS SE		1148,666	106.833
79 SSA XILIZED MASS BE 1157.5A3 8.083 80 D21 COMPON BANDED COML 1157.960 .417 81 750 XILIZED COX 1162.752 4.792 1 021 COMPON BANDED DOAL 1163.335 .583	78	221	CORMON SANDED COAL		1149.460	.792
80 021 COMPON SANDED COME 1157.960 .417 81 750 XTLIZED COX 1162.732 4.792 7 021 COMPON SANDED DOME 1163.335 .583					The second second	
61 750 KTLIZED COL 1162.732 4.792 7 021 COMMON BANDED DOAL 1163.335 .583	20	027	CONTEN BEADED COAL			.417
2 021 COMMON BANDED DOAL 1163.335 .583	61	750	ATLIZED COL		1162.732	
			CAY MARS IS		1163,668	

PAGE: 4 CLAMER MAME: ISLAND CREEK COMPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LOGS 1 TVMSNT 1 TVA1 I Z 1: 24000.7 10: 75

LINE		DE ENGLISH	COMMENTS	CLIMILATIVE	UNIT
		*****	***************************************	***********	
84	021	DOWNEN BANDED COAL		1163.751	,083
83	554	NTLIZED HASE SS		1185-084	1.333
86	754	XTLIZED GTZ PER CGL		1170.064	5.000
87	021	CONFIGN BANDED COAL		1170.751	.667
88	554	XTL12ED NASE ES		1184.251	13,500
89	75A	XTLIZED OVZ REB CGL		1195,584	11.333
90	554	XTLIZED MASS BS		1204.667	9.083
	-	" BED LOA O		1550 1630	GSINE
47	021	CONTRACTOR CLASS		1209-167	4.500
	-	* SED : PCS 20 PCS 20		Autoria Varia	
92	124			1209.334	. 167
73				1218.334	9.000
94	544	A SECTION OF THE PROPERTY OF T		1234 - 667	16.333
95	749			1242.634	8.167
94	021			1245.667	2.833
		* 380:006 10		A STATE OF THE STA	9077
97	034	BOKE		1245.709	-042
- 60		* BED:PC4 10		AGE STONE	-,0,0
95	544	GRY MARS SE		1250,542	4,833
99	034			1250.750	.200
	-	* BED 1PC4 20		2002.07.00	
100	021	COMMON BANDED COAL		1251.417	,667
100	200	* BED:PC4 20		1000000000	1.00
101	124	DRIK GRY BR		1254.167	2.750
102	324	DRK GRY MARS SOY 3N		1262,167	5.000
103	544	GRY NASS SS		1275,834	13.667
104	124	DRE GRY SH		1283.167	7,333
105	543	GAY SE W/SH STEE		1301-000	17,833
106	124	DINC CAT 80		1307.417	6.417
107	021	COMMON MANDED COAL		1307,563	.145
		- BED:PCE 10 PCE 10			
108	114	BLS: SN		1307.626	.063
109	021	COMMON HANDED COAL		1311.668	4.042
		* BED:PC3 20 PC3 20			2024
110	124	DEE GAY SH		1316.585	4.917
111	324	DRIX GRY MARS SOT 5M		1335.627	19.042
	124			1343.794	B. 147
	030			1343 .677	-043
		* BED:PC2 10 PC2 10		-0.5(-3)	-10
114	724	URK CRY SH		1344-377	.500
	030	INFLINE COAL		1344.710	.333
100	4.7	* 8E01PC2 20 PC2 20		42.44.21.4	
116	324	DAK GAY MASS SDY SH		1360.710	16.000
1.00	544	KKY MAGS SS		1375.043	14,333
	564	MARG ES		1464,293	69.250
-		The state of the s			

PAGES

I CHANER WAME: ISLAND CREEK CORPORATION ALL DEPTH/TE)CROVESS DATA IN FEET

LOGAT T TYRENT

7 TVA7 F 2 T: 26000.1 TO- 7

IDENTIFICATION SECTION

- 1. GUAD AUNET VATAT
- 2. STATE LOCATION OF GUAD: VA
- 1. STALE OF DUAD: 2
- 4. LOS ID #1: 74
- 5.1 UNPUBLISHED RECORD. DORMANY OR AGENCY MARE! FELAND CREEK CORP.
- S. DIVISION OF TRACT:
- T. DRILL HOLE (APPER: L-ES)
- 5. CONTRIBUTING COMPANY OR ASENCY: ISLAND CREEK TORP
- 5. CONTREBUTING COMPANY DORMS L-230

COORDINATES OF MOLE ON SECTION

- 12.1 STATE CODE: MAS
- 12.2 STATE PLANE N/3: \$509695.79
- 12.3 STATE PLANE E/W: 10441565.08
- 15.1 COMPANY GRID N/S: 21059.46
- 15.2 COPPART GRID E/W: 22598.87

SIVIL DISTRICT WERE LOCATED

- 17. STATE HWESE HOLE LOCATED: VA
- 10. COUNTY: BUCHANAN
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCOMPORATED PLACE! VANSANT
- 20. CREAMS LOCATION DESCRIPTION: THREE FORKS

MENCILE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE ON SECTION F
- 1529.20 DRILL ANGLE O.
- 2. HETHOD OF ELEVATION DETERMINATIONS S
- 23. NAME OF PERSON LOGGING: CHURCH
- 24. YEAR DRILLED OR HEARINGD: 1974
- 23. TOTAL DEPTH OF BEILL WOLE: F 1365.330
- 25. BED CODE MEGICA TOENTIFIER: NAPP
- 27. CODE OF UPPERMOST IDENTIFIABLE BED! WAY
- 28. CODE OF LOWERHOUT IDENTIFIABLE SEDY PCS
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: (CODE)
- 30.1 UNLTS OF PERSUMERENT! 1[FIF]
- 30.2 METHOD(S) OF MEASUREMENT: TETHE !

PERSON(S) LAST MODIFILING 1915 LOG

- ST. PERSON BUSHITTING LOS FOR ENTRY: DOL
- 32. DATE OF LOG SIMPLISHING (PM/DD/YYYY): 5/2/87

LAST MODIFIED BY: DOL

DATE: 9/3/1992

GREE DAYA:

Z CHRER NAME: ISLAND CREEK CORPORATION PACE; ALL DEPTH/THICKNESS BATA IN FEET

LOS-1 1 DWSNT 1 TVAL E 7 1: 24000.1 10-

LINE	CODE	DMIL FEX	COMMENTS	CUMULATIVE	LANTE
2770			ATTACHED BUSINESS STREET	Contaction.	
1	001	CASING OR BURFACE		15.000	15_000
2	544	GRY MASS SE		57-750	42.750
3	124	DRIC DRY SH		43.433	26.083
- 6	021	DONNEM MANDED COAL		94.666	.633
		BEDI-JAN 10 JAN 10	25 200		
5	544	GRY HASE SS	COAL STRES	135-166	50.500
6	150	COMMON BANDED COAL		130.066	1,500
		BED: THE SQ THE SQ			
T	124	DAK CRY SN		142,749	6.085
8	344	CRY MASS 55	COAL STREE	205.749	63,000
9	323	DRK GRY SH U/SS STKS		235 .499	29.750
10	021	DOMENIA SANDED DOME		235.832	.335
		MED: TIL 20 TIL 20			
11	124	DRIK GEY SY		238.062	2.250
12	021	COMMON BANGED COML		235.749	.667
		960:TIL 30 TIL 30			
13	124	DRE GRY WR		260.082	1.333
74	544	GRY MASE SE		256.165	16.085
15	523	DAK BRY SH W/SS STICS		331.555	75.500
16	021	COMMON BANDED COAL		332, 165	_500
-		BED : 10 USS 10		1242-214	3.414
17	124	DAT GRY SN		340.582	8.417
16	344	GRY MASS 95		374.582	34.000
19	021	COMMIN HANDED COAL		375,582	1.000
		BED:USB 20 USB 20		0.6 77 7 10	266
50		DUE CHA 3H		377.249	1.667
53	543	CRT ES W/SH STES		391_332	14.023
55	124	DRE GRY FH		465,499	74.167
23	051	COMMON BANDED COAL		467.165	1.657
		SED; EVC TO CYC 10		an Sorte	1000
24	344	GRY MASS 88	4.	497.999	30,833
25	124	DRE GRY SH		514.499	16,508
56	323	DRK GET SH W/SE STES		552.749	38,250
27	124	DHE GRY SH		554.416	1.667
28	543	DRY TO WAN STEE		564.583	10,167
58	134	DRK GRY BN		\$69.583	5.000
	324	DAK GRY MASS SOY IN		\$70.250	-667
31	028	COAL W/SH STEE		570.750	,500
		SED : LSB 10 LSB 10			
32	323	DRE GRY SH W/92 STKS		374.667	3.917
73	021	COMMON BANDED COAL		574.917	.250
		MED:LSB 20 LSD 20			
34	323	DRK GRY SH W/SS STKS		593.917	19,000
35	543	CURY SE W/SH STEE		675.000	81.083
36	124	DRK ORY SH		586,583	11.583
37	0.21	CORNER BARDED CLAL		688.333	1.750
	*	BED JUNE TO UNE 10		102.00	11.00
30	344	CHY MARS 49		701,259	17,917
30	124	DRC GRY SH		703,250	2,000
45	027	COMMON BANDED CORL		705.250	2.000
		BED : UNP 20 UNE 20			3.27

LOGH(] [VMSHT] [VA) [2 1: 24000.] 10:

1,3	RE CODS	ENGLISH COMMENTS	DANILATIVE	Luit
**			***********	*********
		MARCON CO. CO.		
	1 323	DRE GRT SH LISS STES	721.417	16.167
	2 343	SAY BE U/SH STKS	738.750	17.333
	3 124	DRK GRT SH	739.583	,833
	4 021	CORROR BANGED DOAL	741.146	1.583
,		BED: MRP 10 MHP 10		
	5 124	DRC GRY SK	741.666	.500
		DRY GRY SH	743.566	2.000
- 3	11 10 10 10	ORY SS WISH GTRS	765.666	22.000
	7 7	DRE GRY SH W/SS STE	759.666	4.000
		DRX GRY SH	819,249	49.583
3	0 021	COMMON BANDED COAL	822.166	2.917
-		SED + URC 10 LINE 10		-1247
5		DAK GRY AN	823.749	1.583
5		ORK GRY SM	824.416	.667
5		DRY GRY MASS 10Y SM	831.916	7.500
	3,10	GHT BE W/SH STIES	840.583	5.667
5		CRE CRY SH	841.583	1,000
5		BLE IN	842.250	.657
-	23.0	COMPON BANDED CONE	842,750	.500
58		BED:WRE 20 LIKE 20	7.77	8.54
35		GRY MASS SS	870.750	28,000
60		DRK GRY SH	671.833	1.083
61		GRY MARS 65	872.333	.500
	100	COMMON SANGED COAL BED:LUP 10 LHP 10	073-250	.917
62		DAK SKY SH		
63			874.250	1.000
64	124	DRK GRY SH	983,500	9.250
63	-	TOM SOLD THE	892.167	8.667
22	Bed Time 1	COMPRES NAMED COST	893.750	1.583
66	124	DRIK SET SH		
67	324	DRK GRY MASS 30T SN	895.750	1.000
68	543	GRY SE U/SH STES	899.750	5.000
5/7		ATLIZED SE WISH STES	904.500	4.750
70	323	DRK GRY SH U/SE STKS	949,500	45.000
71	124	ORK GRY SW	952,750	3.250
	021	COPPOSI BANGED DOAL	965.167	12.417
		ED:PC9 10 PC9 to	967.750	2.583
73		DRK GRY SH		
74	523	DAK GRY SH M/SE STES	971.750	4.000
75	544	CRY MASS SE	959 000	17.250
76	124	DRE GRY EN	594.333	5.333
77	021	CONSIGN BANDED COAL	1009-583	15.250
		E0:PC9 20 PC9 20	1010,333	-750
75	124	DRK GRY SH	W. Service	49500
79		CRK GAY SI M/95 STKS	1028.000	17.667
200		CRK GRY SN	1035,000	7_000
81		KTLIZED SS W/SH STKS	1061,583	26.553
7.0		D:LQA C	1072.833	11.250
82		DRK BRY III	0499400	
	42.	201 201 20	1077,000	4.833

LOGAL 1 TUNSMY

1 (VA) (2 1: 24000.) ton 74

4.1	10 miles	OKOL 169	COMMENTS	CORNLATIVE	UNIT
		was a second and a second a second and a second a second and a second	************		
	83 354	XTLIZED WASS 38		1082.666	20.25
	14 323	DRK GRY BK M/BE STKS			5.000
	5 554	XTLIZED MASS SE		1091.269	8.583
	554	XTLIZED MARK US	FEB	1199,832	108.583
	7 021	CONSIGN BANDED COAL	1,62	1203,415	3.565
- 5	554	KTLIZED MASS SE		1203.665	.250
	150 6	CONSON BANDED COAL		1205.332	1.667
- 3	0 554	KTLIZED MASS 35	PERS	1205.415	, 083
9	021	COMPACH BANDES COAL	, 200	1210.248	4.833
	2 554	KTLIZED MASS SS	CEL & COAL STREE	1210.415	. 167
9		ATLIZED MASS 52	dec a dour stars	1212.415	2,000
9		XTLIZED SS W/SH STES		1249_632	37.417
9	5 354	XTLIZED WASS SS	PEB	1251.665	1.833
1		RED:LOR O	eca .	1253.145	1.500
9		CONNON RANGED CORL		464.55	V 1945
		880 rPC5 20		1257.332	4-107
9	034	COME		1000	1.00
		SED:PCS 20		1257,457	125
98	324	DRK CRY MASS SOY SH		200	2000
99	124	DRK GRY WN		1262.749	5_292
20		DRE GRY MASS SOY SH		1263.416	.667
101	544	DRY HASS SS		1265,583	2.167
102	324	DRK GRY MASS SOY SN		1316.165	50.583
103	323	DRK GRY SW W/\$5 STKE		1324,166	8.000
104	124	DRK GRY SH		1327_083	2.917
105	123	THE GRY SH W/COAL STEE		1330.333	3.250
106	051	COMMON BANDED COAL		1331.500	1,167
	* 8	EDIPCS 10 PCS 10		1338,667	7.167
157	034	BOME		2224 200	
	* 81	D:PC4 20		1330 .084	.417
100	021	COMION BANDES COAL		CONTRACTOR	
	* 86	ED:PC4 20		1339.709	-625
109		DAY 88 W/COAL SPARS		Carriera	
110		DRK GAY SH		1345,251	5.542
711	25.0	ERY MASS 85		1345,918	.667
112	- F-1	DRK GRY SH		1347.251	1.333
113		CONNON RANDED COAL		1349.634	2.583
		0:PG 10 PG 10		1351.230	1.396
114		BLE SH			
115		CORNOR BANDING COAL		1351.303	.073
		D:PG 20		1351.876	-573
116	A artic	OLK BH		200	
117		TOPPON BANDED COAL		1351_939	-063
		D:PC3 20		1356.210	4.271
118		PRK BRY SH			
	300	ORE GRY SH W/SS STES		1357,377	1.167
112					

SERIAL MAN-101092886-003-3.00

LOG=1 1 CVMSMT 1 CVM3 [2 1: 24000.] ID= MY

IDENTIFICATION SECTION

- I DUAD RAME! VAIDIT
- 2. STATE LOCATION OF CUMD: VA
- I SCALE OF GLAD: 2
- 4. LOG ID #: 61
- 5.1 LINPUBLISHED RECORD. COMPANY ON AGENCY MANE: ISLAND CREEK CORP
- S. DIVISION OR TRACTS
- 7. DRILL HOLE NUMBER: 1-245
- & CONTRIBUTING COMPANY OR ASSNCT: ISLAND CREEK CORP.
- 9. CONTRIBUTING COMPANY DOME: L-245

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3603453.16
- 12.3 STATE PLANE E/U: 10431922.95
- 15.1 COMPANY (\$10 M/S: 17449.04
- 15.2 COMPANY GRID E/N: 13077.49

CIVIL DISIRICI WHERE LOCATED

- 17. STATE WHERE HOLE LOCATEDE VA
- 18. COUNTY: BUCHAMAN
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, DE INCORPORATED PLACE;
- 20. GROUND LOCATION DESCRIPTION: HURRICAINE CR. NEAR DESKINS

MENDLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE OR SECTION: F
- 1814.90 DRILL ANGLE D.
- 22. METHOD OF ELEVATION DETERMINATION: S
- 25, HAME OF PERSON LOGGING: COE
- 26. YEAR DRILLED OR HEASURED: 1975
- 25. TOTAL DEPTH OF DRILL HOLE: F 2130,000
- 26. BES CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERHOST IDENTIFIABLE BED: LBM
- 28. CODE OF LOWERSOUT TORNTTFTABLE SED: N/B
- 29.1 KIND OF RECORD: C
- 29.2 METHOD OF LITHO DESCRIPTION: 1 FCODE)
- 30.1 UNITS OF HEARLINGNENT: 1CFIF 1
- 30.2 HETHOD(S) OF HEASUREMENT: TITHE)

PERSON(E) LAST MODIFYING THIS LOG

- 31. PERSON SUMMITTING LOG FOR ENTRY; DEL
- 52. DATE OF LOW SUBMISSION (MM/OD/YYYY), 2/23/87
- LAST MODIFIED BY: DOL

DATE: 9/3/1992

UMER DATA: 10.66" HET SOAL 34 1.5"

LDS-L J CWUNT

1 (VA) 1 2 1: 26000.1 10: A

LINE DODE	ENGLISM	CKRMENTS	CUMULATIVE	UNIT
		*************************	*********	********
T DOI CASTUS	OR SURFACE			
2' SA4 DRY MAS	S SS		30.000	30_000
	HASS SOY SH		43.000	13,000
4 124 DRK CRY			55.417	10.417
5 020 COAL	3 1		53.584	2,167
* BED:LEN T	Q LIN 70		56.001	-417
5 114 BLC SH	2.000 004		As III	
7 324 DRK GRY	MASS SOT SH		56.168	- 167
6 543 GRY SS 1	W/SH STKE		59.168	3.000
9 124 DRE GRY			60.835	9,667
	MASS SOY SH		73.418	4.583
11 543 SRY SS N	WAN SIKE		85.416	12.000
	SH W/SW STKS		126-635	41.417
13 114 SLE SN	7.04		158,002	31.167
14 124 DRK GRY	SN.		180.752	22.750
15 114 BLK SM			191,333	10.583
	MASS SOY SH		201.502	10,167
17 020 COAL	75.55 W. A.		204.664	3,167
* BEDEKEN 10			204.919	.250
18 126 DRY GRY				
19 020 COAL			205,586	-657
" BED : KEN 10			206, 753	1,167
20 124 DRK GRT 5	58		47.3	
21 544 GRY MASE			207.336	.583
	MES SOY SH		275.003	67.567
23 020 COAL			317.586	42.583
* SED:ALY 10	ALT 10		318.086	.500
	MST MOY SH			
25 564 BRY MASS	54		321.006	5_000
	MSS SOY SH		346.919	25,833
27 020 COAL	24-52-14		355.169	8.250
" BED:ALY 20	ALT 20		396.752	1.583
26 114 BLK 58			27700	
29 543 GIT SS W/S	SM STKS		358.002	1.250
30 SA4 GRY WASS S			342.085	4.083
31 324 DRE GRY HA			369.002	6.917
32 114 BLK 3W	30 30 30		381,002	12.000
33 323 DAK GRY SA	W/8\$ 57KS		399,419	18.417
34 124 DRK GAY SH			401.419	2.000
35 116 BLE SH			418.334	16.917
36 029 DOW			428.836	10.500
* BED : RVN D			430,003	1.167
37 124 DRK GRY SH			Ave are	2.7
38 113 BLK SK W/C	DAL STEE		432,253	2.250
39 114 BLE SH	- D-		432.920	.667
46 020 CDAL			435.920	3.000
" BED: SYN 20 RI	Vm 20		436,253	353
41 114 BLK SH	74.7		12041-520	h - 7
2 545 GRY SE W/S	STKS		440.670	4.417
43 324 DRK TRY MAS	S SOY SN		464_420	23.750
			470.337	5,917

3 CANER MADE: ISLAND CREEK COMPORATION ALL DEPTH/THICKNESS DATA IN FEET

PAGE:

LDG-1 1 TVXSNT 7 TVX3 1 2 1: 24000,1 10+ 61

44 544 GRY MARK SE 45 114 BUL SH 500 COAL 540,087 1.500 47 114 BUL SH 564,087 1.500 47 114 BUL SH 564,087 1.500 47 114 BUL SH 564,725 20,417 567,726 1.501 57 114 BUL SH 567,726 1.501 58 114 BUL SH 578,727 1.501 58 114 BUL SH 578,727 1.501 58 114 BUL SH 580,184 20 184 20 58 114 BUL SH 580,184 20 184 20 58 114 BUL SH 58 18 18,733 6.500 57 75 25 187 MARS SE 76 76 00 SH SE WICKLE SPARS 57 114 BUL SH 58 18 18 18 18 18 18 18 18 18 18 18 18 18	LINE	cong	ENOFTEN	CONMENTS	CLMALATIVE	unci
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### 546,087 1.500 ### 158,080 10 AM 10 ### 158,080 10 AM 15			Tarana Taran		2 10 10 1	
### BB JAN 10 JAN 10 11		- /				
47 114 BLE SM \$46,337250 48 125 ORK CRT EN \$66,734 20,417 49 C20 COAL \$67,254500 ****EDIJAN 15 JAM 15** 50 124 ORE GRY RH \$75,920333 51 114 ALK SM \$78,920333 52 O20 COAL \$77,753853 53 116 BLE SM \$50,253500 64 324 ORK CRT RARE SOY SM \$86,723500 55 144 ALK SM \$50,253500 56 749 ORY SEE MYCOAL SPARS \$20 SM \$22,353500 57 114 ALK SM \$25,770167 58 920 COAL \$25,770167 59 114 BLE SM \$50,253500 61 114 BLE SM \$50,253500 62 O20 COAL \$67,359500 63 114 BLE SM \$69,005167 64 324 DRE GRY MASS SOY SM \$63,671916 65 114 BLE SM \$67,359167 66 920 COAL \$77,359167 67 114 BLE SM \$67,359167 68 324 DRE GRY MASS SOY SM \$67,506167 67 114 BLE SM \$67,359167 68 324 DRE GRY MASS SOY SM \$67,506167 69 114 BLE SM \$67,509167 69 114 BLE SM \$67,500167 60 114 BLE						
124	47	100000000000000000000000000000000000000			546.337	.250
### 100		124	The state of the s		566.754	20.417
* \$20 JAN 15 JAN 15 50 124 ONE GRY SH 578,920 .333 52 020 COAL \$20 JAN 20 JAN 20 \$20 JAN 20 JAN 20 \$20 JAN 20 JAN 20 \$21 14 BLF SH \$20,1AN 20 JAN 20 \$21 14 BLF SH \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$21,005 34,250 \$22,037, 167 \$20 COAL \$22,037, 167 \$20 COAL \$22,037, 167 \$20 COAL \$23,037, 167 \$24,007 \$25,			COAL		567.254	.500
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53 116 BLR SH 54 324 DBK GRT RASS SDY SH 55 544 SRY MASS SE 55 544 SRY MASS SE 56 749 GRY SE W/CDAL SPARS 57 114 ALK SH 58 020 COAL 58 020 COAL 58 020 COAL 59 114 BLK SH 65 115 0 TIL 10 59 114 BLK SH 65 020 COAL 65 020 COAL 66 020 COAL 66 020 COAL 56 115 BLK SH 66 020 COAL 57 134 BLK SH 66 020 COAL 67 135 SEP 115 SDY SH 67 139 SEP 115 SDY SH 67 134 BLK SH 67 135 SEP			COAL		579.753	.E53
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78 564 HARD WASS SS 944,674 102,000 " MEDIMON 0 79 764 MARD QTZ PES COL 966.674 2.000 " SED:NOA 0 80 843 GSY SS M/SM STKS 056.176 11.500 81 116 SLK 6H 984.007 25.833 82 323 DRE GRT SM M/SS STKS 989,424 5.417	19.5				100 100 100 100 100 100 100 100 100 100	24.1.7.7.1
** MEDIMON () 79 764 MARN STZ PER COL 966.674 Z.000 ** BED:NON () 80 NAT CRY SS M/SN STKS 056.176 11.500 81 116 SLK 6H 984.007 25.833 82 323 DRE GRT SH M/SS STKS 989.424 S.417						0.750.0 \$1.0-24
79 764 HARD GTZ PES COL 965.674 2.000 " BED; NOA 0 50 \$43 GRY \$5 M/\$N STK\$ 056.174 11.500 61 116 9LK 6H 984.007 25.833 82 323 DRE GRY \$H M/\$\$ STK\$ 989.424 5.417	100		LETTER ST. DELINE ST. CO.		144.014	106.000
" BED: NOA 0 50 \$43 GRY \$5 M/\$N STK\$ 056.174 11.500 61 116 9LK 6H 984.007 25.833 82 323 DRE GRY \$N M/\$\$ STK\$ 989.424 5.417	20	Carrier III	The state of the s		964 676	2.000
50 \$43 GRY \$5 M/SN STRS 056.174 11.500 e1 116 9LK 6H 984.007 25.833 82 323 DRE GRY SN U/SS STRS 989.424 5.417	16		4 1 1 1 1 2 2 A A A A A A A A A A A A A A		1441414	2.343
81 116 9LK EH 984.007 25.833 82 323 DRE GRY SH U/95 6185 989.424 5.417	80	-40	A STATE OF THE STA		056 174	11,500
82 323 DRE GRY SH U/95 61K5 989.424 5.417	-	1.7				
			A Company of the Comp			
	100				1	

4 CHEES HAVE: 18 LAND CREEK CORPORATION ALL REPTRICHISCORESS DATA IN FEET

>1 1 (VASAT 1 200) [2 1: 24000.1 (D= 6)

Line	trant.	●外型厂工程 (1	CONNENTS	GRELATIVE	20011
			*******	THE PERSON N	
18	716	BLK SH		1009.674	.500
15	829	COAL		1010.674	1.000
-	-	SED-HES 10 HSS 10			
-86	114	BLIC SM		1010.757	.083
87	334	ORIC GRY NECSO SUY SH		1020,390	19.935
88	113	BLK SN W/COM STES		1053,925	3,333
89	020	COAL		3054 .078	-167
		BED: MSB 20 MSB 20			
90	124	DRK GRY SM		1060,757	6.66
91	543	GRY SS NYSH STAS		1101.850	61_083
92	313	BLE SH W/SS STICS		1151,007	29.167
95	194	MI W		1153.924	22.917
94	124	THE MIX SH		1145-924	12,000
95	050	COAL		1166.174	.250
		MED:UNP 20			10.2
94	114	BLK BH		1166,541	-147
97	544	DRY MASE SS		1166-674	333
175	494	BLE SH		1166-757	.063
99	020	COAL		1168.090	1.333
		NED LUNP 20			
	124	ORK GRY SH		1171.173	3.085
707	313	BLK SH MYSS STKS		1177,006	5.833
102	323	DRK GRY SH W/SS STEE		1207.006	30.000
103	115	RLK GN		1207,339	.323
104	020	COAL		1205,256	.917
1,000		SED:NIP TO MIP 10			
105	114	BLE SN		1209.423	1.167
106	524	ORE GRY HASS SOY EN		1223.006	15.585
107	100	BLK SH W/SB STKS		1252.506	29,500
108	114	ALK SH		1205.173	40.667
109		DRE DRY MASS SOY SH		1294.756	7.583
110		CRY SS W/COAL SPARS		1317-906	22.250
111	543	GRY SS W/SH STKS		1340_673	23.667
112		COAL		1341_006	.333
1,10	*	NED-URG 20 WAG 20		- C C C C C C	
413	324	DRE GEY MASS SOY SH		1341,673	.667
	544	GRY MASS SS		1343.756	2.083
	324	DIES GRY MASS SOY IN		1345.589	1.833
	544.	CHY MASS SE		1393.839	45.250
117		SLX SH		1397.172	3.333
115		COAL		1399.172	2.000
****	-	BED: LHP 20 LHP ZO		500	
119	114	BLK SH		1480.672	1,500
120		GRY SS W/SH STRB		1412,005	. 11.535
	313	BLK SH W/SS STREE		1454.338	42,333
	114	BLK SH		1454-588	. 250
113		COAL		1457_171	2.583
-		DED: PC9 10 PC9 10			N 42
125	113	BLK SN 9/COAL STKS		1463.171	6_000
	114	8LK 30		1453.754	.583
100	11.0	200 20			

LOG-1 1 IMABRY) IVAL [2 1: 24000.] ID- 61

LIME	5008	EMELTER	COMMENTS	CUMULATIVE	UNIT

125	114	BLK SH		1465.754	5.000
127	513	BLK BH W/SS STKS		1476-421	10.667
128	544	CRY NASS UR		1484,754	3.333
129	313	BLK SH W/SE STES		1496.754	12.000
130	214	BLE SH		1510.671	13.917
131	050	COAL		1511.504	.833
		SED: PC9 20 PC9 20		24.0732	5 (62)
132	113	BLK SH W/COAL STES		1514.171	2.667
133	114	BLK SH		1544_588	30_417
134	543	GRY SS W/SH STKS		1559.671	15.083
135	116	BLE SH		1560, 838	1.167
136	124	DAIL GRY SH		1567.838	7_000
137	543	GRY MA WITH STICE		1590.505	22,467
138	364	HAPD WARE ES		1609.005	18.500
		SEO :LEA G		December 1	36 (-15)
139	563	HARD SE W/SH STRS		1624-172	15.167
140	564	HARD MASS 82		1676.839	52.667
141	764	NARD GTZ PES CGL		1682.922	6,083
142	564	HARD MARS SS		1700,005	17.0A3
163	769	HARD ES MYCDAL SPARS		1710.422	10,417
144	564	HARD MASS 35		1721.172	10.750
145	764	HARD GTZ PEB CGL		1724.172	3,000
165	564	HARD MASS SS		(735.589	11.417
147	764	HARD DTZ PED COL		1751,256	15.667
168	564	HAND HASS 35		1756.923	5.667
		SED : LGA (400 to 30	
149	113	BLK SH M/CDAL STRE		1761-590	4.667
150	020	COAL		1762.840	1.250
		IED:PCS 10 PC5 10		225.00	1000
751	114	SLE SH		1763.007	-167
152	124	DEK ORT SH		1788.174	25.167
153	123	DORE TRY SH W/COAL STRE		1763.341	.667
154	020	COAL		1789.341	-500
		SED 69C5 20		(con 10)	To Val
155	113	BLK BY W/COAL STEE		1790.424	1.083
156	124	DRK GRY SX		1790.501	-167
157	114	BLK ST		1790.758	167
158	124	DRK GRY SH		1790.925	. 167
159	114	BLY SH		1791.008	.083
160	020	COLL		1795.008	4,000
		SED : PC5 20		and Phone	200
161	114	BLK SN		1795.179	.157
162	324	DRE GRY MASS BUY SH		1824.675	29.500
163	050	COAL		1825.925	1,250
		ED-PC4 (0 PC4 10		244 24	224
184	114	DEC EN		1826,258	,333
165	324	DOK GRY MAGE SUT SN		1832.759	6.500
166	543	GRY SE M/SH STES		1853,091	20,333
57	124	DAK CEA EN		1855,924	
168	920	COAL		1854,341	.412
	90.1	BED:PC4 20 PC4 20			

RE: & CHMEN NAME: ISLAMD CREEK COMPORATION
ALL DEPYNYTHICKNESS DATA IN FEET

LOGAL 1 TYKSUT

1 DAI 121: 24000.1 10+ 61

Lin	3000	ENGL/SH	COMMENTS	CHULATIVE	UNIT
		***************************************	********		*******
765	324	DRE GRY MASS SUT SH		1888.258	31.917
170		BLE EN		1889.841	1.583
171		LAMPLINE COAL		1890,591	.790
- 1		10:PC3 10 PC3 10		Section 1	1145
173		BLK 50		1891,174	.583
173		DRE CRY EN		1896_007	4.833
174	114	BLK SH		1902.007	6.000
175		DRK GRY SH		1905 .840	3.833
176		BLK CH		1915-940	10,000
177	324	DRK CRY WASH DOY SH		1917.840	2,000
172	714	ULE SH		1915.507	.667
179	020	COAL		1919-007	,500
		20:PC2 10 PC2 10			
180	114	BLK 6H		1919.174	.167
187	124	DRE CRY BH		1919-674	.500
182	544	BEY MARE SE		1920.674	1.000
163	324	DRE GRY HASE SDY TH		1925.007	4.333
184	344	GRY MASS SS		1927-007	5-000
185	314	BLK MASS SOV SM		1930.590	3.585
186	564	NARO MASS SE		1959.007	28.417
87		SLE SH W/SS STES		1960_674	1.667
68		HARD MARE SS		2007.924	47.250
189	0.00	ALK SH		2014.591	6.667
190		SKY MASS SS		2041.674	27,083
191		DEK GRY SH		2043,257	1.563
192	2 4 4	GRY MARS SE		2065.340	22,083
195		SLX SK		2070.340	5,000
194	544	GRY MASH 55		2075.340	5,000
195	124	DRK GRY SU		2081.590	6.250
196		CAN BA		20m3.590	4-000
		ED:X/O 0		204000	7.
197		RED SM		2086,007	-417
196		CRN SH		2089.007	3.000
109	164	RED EN		2090.007	1.000
200	134	RED+GRN SH		2093,007	3.000
201	146	CHK EN		2112.007	19,000
202	124	DAX GRY SH		2129.007	17.000

SERIAL NUM:101092688-003-3-00

LOGET 1 TVHENT

1 (VA) (2 1: 24000 1 10= 27

IDENTIFICATION SECTION

- THURNY : SHAM ONLY
- 2. SYATE LOCATION OF OWAD: VA
- 3. SCALE OF BUND: 2
- 4. LOS 10 0: 271
- 5.1 UNIFIUEL I SHED RECORD. DOMPANY OR ADENCY NAME: I SLAND CREEK CORP
- & DIVESTOR OR TRACT:
- 7. DRILL HOLE NUMBER: V5.90
- S. CONTRIBUTING COMPANY OF AGENCY: ISLAND CREEK CORP
- 9. CONTRIBUTING COMPANY DONAT VS. 90

COORD INATES OF HOLE OF SECTION

- 12.1 STATE CODE: WAS
- 12,2 STATE PLANE N/#: 3608332,30
- 12.3 STATE PLANE E/U: 10435667.91
- 15.1 COMPANY GRIE H/S: 20437.58
- 15.2 COMPANY GRID E/9: 16761.22

CIVIL DISTRICT WHERE LOCATED

- 17. STATE WHENE HOLE LOCATEDY WA
- 18. COUNTY: BUCHANAN
- 19. TOWNENIP, MAGISTERIAL DISTRICT, OR INCORPORATED PLACE:
- 20 GOUND LOCATION DESCRIPTION:

REHOLF OR SECTION DESCRIPTION

- "1. ELEVATION AT TOP OF HOLE OR SECTION: F
- 2120.00 DRILL ANGLE O.
- .2. METHOD OF ELEVATION DETERMINATION:
- 23. NAME OF PERSON LOGGING: SCHLUMBERGER
- 24. YEAR DRILLED ON HEASTRED:
- 25. YOYAL DEPTH OF DAILL HOLE: F 2181.000
- 26. NED CODE REGION IDENTIFIER: MAPP
- 27. CODE OF UPPERMOST LOCATIFIABLE BED: KEN
- 28. CIDE OF LOWERNEST IDENTIFIABLE NED: NGS
- 29.1 KIND OF RECORD: E
- 29.2 NETHED OF LITHO DESCRIPTION: 1 (CODE)
- 30.1 UNITS OF MERSUREMENT: ZIFT J
- 30.2 METHOD (S) OF MEASUREMENT: 1 LTHE 1

PERSON(S) LAST SCOTETING THIS LOC

- 31. PERSON CLIMATITING LOG FOR ENTRY: PMY
- 32, DATE OF LOG BURNISSIDE (194/00/4444): 8/22/91

LAST HODIFIED BY: DEL

BATE: 9/3/1992

USEN DATA: 999.00" NET COAL . 1.5"

PAGE: 2 DAMER MANE: ISLAND CREEK CORPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LOG-[] TYMENT 1 (VA) C 2 1: 24000,3 10- 271

LINE	COOK	ENDL ISK	COMMENTS	CUMULATIVE	UNIT
-	Special Contract of				0.700
- 7	100	CASING OR SURFACE		100.000	100.000
2	324	DRE GRY MASS SOY SH		204_000	104_000
3	500	23		221.000	17,000
4	021	CONSIGN BANGED COAL		225.000	2.000
		BED:KEW 10 KEW 10			
	500	54		259,000	35.000
6	700	CASING OR BURFACE		252.000	3,000
7	500	\$5		269-000	7.000
8	324	DAK CHY MASS SOY SH		291.000	22.000
9	104	SN		321.000	30.000
10	500	33		348,000	27.000
11	104	\$M		351,000	3,000
12	021	COMMON SAMPED COAL		353.000	2.000
-		SED LALY ZO ALY 20			
13	104	SH		392,000	39,000
14	324	DRE GRY MAGS SOY SH		617,000	25.000
15	021	COMMON BANDED COAL		417,000	2.000
		BED:RYM 20 AVM 20		4174900	2.000
16	324	DRIC BRY MARE SOY SN		430,000	11.000
17	500	22		509.000	79.000
18	104	38		551,000	42.000
19	021	CONNON BANDED COAL		553.000	2.000
18		DED: JAM 10 JAW 10		323.000	2.000
20	104	SH IN THE IN		565.000	10-000
21				570.000	7.000
22	324	DEK CRY MASS SOT SH		583,000	13,000
		SS		593,000	10.000
25	104	Carlotter on Town Carlotter			2,000
24	021	COMMON BANDED COAL		595.000	2.000
-		SEDI JAN 20 JAN 20		(m) 000	
25	104	28		501.000	5.000
25	500	39		655.000	54-000
27	104	av .		673,000	15,000
28	030	THPUNE COAL		675.000	2.000
22		EDITIL 20 TIC 20		147.544	
29	704	511		6861000	11,000
30	020	HOURE COAL		687.000	1,000
4		ADITIL 30 TIL 30		***	
31	104	EX.		691.000	4,000
35	324	ORE DRY MASS SDY SH		710.000	19.000
33	1CA	SN N		796.000	86,000
34	021	COMMON SANDIED DOME		794,000	.000
4		DED ; USB 10 USB 10			
35	500	15		816,000	20.000
36	104	SN.		819.000	3,000
37	021	CONNUM BANDED COAL		821.000	2.000
		E91US\$ 20 USE 20			
38	104	60		826_000	5.000
30	500	48		874.000	68.000
0	550	XILISED 95		933.000	39.000
		ED: MOA 10 MOA 10			

I CAMER MAME: ISLAND CHEEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

PAGE:

LOG-I 1 IVISHT

7 CVAL E 2 1: 24000,1 to= 271

LINE	DODE	ENGLISH	COMMENTS	CUMULATIVE	DNAT
****	******		****************	*********	********
41	100	ECHONOM BANDED COML BEDIGYE 10 GYE 10		935_000	2.000
42	1700-2	BRK DRY MASS SDY SR		934,000	3.000
43		55		958.000	20.000
44	104	EN .		963,000	5.000
45		DAK GRY MASS SOY SH		968_000	5.000
46	104	Sil		1002,000	34.000
47	324	DRK GRT MASS SOY SH		1015.000	16,000
48	104	SH		1026,000	8.000
49	750	COMMON BANDED COAL		1028.000	2.000
-		REDILGE 10 LSE 10			
50	324	DRE GRY MASS SDY BR		1042.000	14.000
51	104	SM		1056,000	14.000
52	324	DRIC DRY MASS SOY SH		1072,000	16,000
53	500	22		1092.008	20,000
54	324	DRE GRY HARR SOY SH		1102.000	10.000
55	324	DRK GRY WASS DOY SW		1128.000	26.000
56	104	38		1146.000	18.000
37	021	COLSTEN GAMBED COAL		1148.000	2.000
		DED:UNP 10 UNP 10			
58	104	9(1		1156,000	8.000
59	500	85		1174-000	18,000
60	104	SH		1176.000	4.000
51	021	DOWNER SAMOND COAL		1180.000	2.000
		RED:UNP 20 LMP 20			
62	324	DAK CHY MARS SOY SH		1216,000	36.000
63	021	COMMICH BANGED CUAL		1216.000	2.000
		BED:MAP 10 MAP 10		No. of the Local Control of th	
64	324	DRK GRY MASS SOY SH		1229.000	11,000
65	500	\$5		1248.000	19-000
66	104	SH		1314.000	66.000
	and the same of the	BED: BL 1 10 BL 2 10		22200000	
58	500	59		1328.000	14.000
88	326	DRE GRY MASS BOY SH		1341.000	13.000
69	500	15		1352.000	11.000
	324	DRE CRY HASS SOY SH		1357,000	5,000
71	500	30		1397.000	40.000
72	104	SH		1400.000	3.600
73	021	DOWNON BANDED FOAL		1402.000	2.000
-	- T	RED: LMP 20 LMP 20		1200 1000	
	324	DRIC GAY MASS SOY SH		1420.000	16.000
	500	32		1425.000	5.000
		DRE GET MASS NOT SH		1429.000	6.000
40.7	500	55		1438.000	9.000
78	324	DAK DAY MARK SOY SH		1451.000	13.000
79	104	SH COMMON AND POLICE		1467-000	16.000
90	021	COMMON AMMOND DOAL		1471_000	4_000
	- D W G	BED:PE9 16 PC# 10		1100 000	40 600
		SN SN HAR SN NA		1490.000	19.000
36	374	ORK GRY MASS KRY SH		1499.000	5-000

LOS-C 1 TYRSMT 1 DAY C 2 1: 24000-1 ID= 271

1.24		DE ENGLIGH	DENNENT R	CLERILATIVE	URIT
	4177		*************************	***********	*********
4	104	ka ka		A 77.0 To 1	
8	021			1505_000	6.000
		* GED:PC9 20 PC9 20		1504.000	7.000
85	104	EN			
86	324	DRK MY MASS STY SH		1520.000	14,000
87	104	SH		1533.000	13,000
80	324	DRK GRY MASS SOY SH		1552.000	19.000
89	104	HZ		1569.000	17.000
90	543	GRY SE W/SH STKS		1577.000	8.000
91	324	DRK GRY MASS SOV SM		1597.000	20-000
92		SS		1602.000	5.000
73	350	XTL/22D SS		1610.000	8.000
- 6		" BED:LOA 10 LOA 10		1693.000	83.000
96	921	COMMON BANDED COAL		445.540	
	20	* BED:PC6 10 PC6 10		1695,000	2.000
95	-	86		Sec. 3.10	
96	550	XTL1280 SS		1708-000	13.000
- 2		REDILOA 20		1727,000	19,000
97		55		Name and	17.51
98	550	XTLIZED SS		1738.000	11,000
- 20		BED:LOA 20		1750_000	12.000
99	324	DRK GRY MARN BOY SH			5.605
100	030	IMPURE COAL		1755,000	5.000
	*	MED:PC\$ 10 PC\$ 10		1756.000	1.000
101	104	SH		1900 BAN	2.50
102	021	COMMON BANDED COAL		1765,000	9.000
140		DEN-SLIPS ON LITS ON		1/01-000	2.000
	324	DRK GHT MASS BOY SH		1774_000	4 900
The law	104	BN		The second secon	7.000
	374	BRE GEY MASS SOY SH		1778-000	4.000
106	021	COMMON MANDED COAL		1796.000	14.000
		960:PCS 25 PCS 25		1790.000	4.000
107		DRK GRY MAST SOV SH		1801.000	2 322
108		RS		1810.000	5.000
109	120	CORNOR BARDED COAL		1812,000	9,000
. 0.5		880:PC4 10 PC4 10		10 12,000	2.000
	524	DHE GRY MASS SOY SH		19/7 556	SE 200
111	101	CASING OR BURFACE		1847.000	35_000
				1852.000	5,000

SERTAL NUM: 151092686-003-5.00

LOGAL 2 EVNENT I LVAJ 1 2 1: 24000-7 10m

HOENTIPICATION SECTION

- I. GUAD MAKET VISHT
- 2. STATE LOCATION OF DUAD: VA
- 3. SCALE OF MINO: 2
- 5. LOS IN #: 266
- 3.1 UNPUBLISHED RECERD. COMPANY OR AGENCY MANE: ISLAND GREEK CORP
- 6. DIVISION OR TRACTS
- 7. DRILL HOLE MUNBER: V5.91
- 8. CONTRIBUTING COMPANY OR ASSENCE: ISLAND CREEK CORP.
- 9. CONTRIBUTING COMPANY DONN: V5.91

EDORD INATES OF HOLE OR SECTION

- 12,1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3604772.65
- 12.3 STATE PLANE E/W: 10435635.24
- 15.1 COMPANY GRED N/S: 18871.66
- 15.2 COMPANY GRID E/V: 16750.05

CIVIL DISTRICT WERE LOCATED

- 17. STATE LINERS HOLE LOCATED! VA
- 18. COUNTY: NUCHAMAN
- 19. TOWNSHIP, MAGISTERIAL DISTRICT, OR INCOMPORATED PLACE:
- 20. GROUND LOCATION DESCRIPTION:

CREMOLE OR SECTION DESCRIPTION

- 1. ELEVATION AT TOP OF HOLE OR SECTIONS F 2266.00 DRILL ANGLE D.
- 22. HETHOD OF ELEVATION DETERMINATION: 1
- 23. NAME OF PERSON LODGING: STILLINGERSEE
- 24. YEAR DRILLED OR MEASURED:
- 25. TOTAL DEPTH OF DRILL HOLE: P 2275,000
- 26. HET COME REGION TOENTEFER: NAPP
- 27. CODE OF LEPPERSORT IDENTIFIABLE SED: KEN
- 28. CODE OF LOWERSHOST IDENTIFIABLE GED: PCS
- 20.1 KIND OF RECORD : E
- 29,2 METHOD OF LITHO DESCRIPTION: 1.000ET
- 30,1 UNITS OF MEASUREMENT: 21FT 3
- 30.2 METHOD(6) OF HEASUREMENT: ISTAK 1

PERSON(SI LAST MODIFYING THE LOS

- 37. PERSON SUBINITING LOG FOR ENTRE POT
- 32. DATE OF LOG SUBMISSION (MM/DD/YTYT): 8-22-91
- LAST MODIFIED BY: DOL
 - DATE: 9/3/1992
- USER DATA: 12.50' HET COAL -- 1.5"

LOGAL 1 IVASAT

1 IVAL [2 1; 24000.] ID= 266

LINE	CODE	EMGL 15N	COMMENTS	CUMULATIVE	UNIT
	600		***************************************	*********	*****
1	001	CASING OR SURFACE		100,000	100.00
2	500	SS		122.000	22.00
3	324	DRK GRY MASS SDY SH		160,000	38.000
6	500	\$9		192,000	32.000
5	524	DRIC CRY HASS SDY EN		195.000	3.000
8	021	COMMON BANDED COAL		197-000	2.000
7	324	DRE GRY HASS SDY SH		223.000	26.000
8	921	COMMON BANDED COAL		225.000	2.000
	324	DRY GRY MASS SDY SM		236,000	11,000
	104	25		265.000	29.000
	500	SH		270.000	5.000
		38		313.000	43.000
	322	DREK GRY SH+LUTERBED \$1		352.000	39.000
-	300	38		360.000	8.000
	322 500	DAK GRY SH+INTERBED SS		414.000	54,000
	0.00	RE.		466.000	32,000
		DRE GRY SH+INTERDED SS		476.000	10,000
		\$8		490.000	14.000
1.7		DRE GRY MASS BOY SH		544.000	54.000
7.4	500	51		563.000	19,000
		COMPON GANDED COAL		565.000	2.000
200	500	51		640,000	75.000
		DRK GRY MASS SOY SH		654,000	14.000
		all.		665.000	11.000
		DRIC GRY MASS SOY SH		674,000	7.000
		35		705_000	31.000
-		DRK GRY SH+ INTERBED SH		709.000	4.000
25 00		COPPION BANDED COAL		710.000	1.000
		20 ALY 20 ALY 20		1 (3 (3)44	1.000
30 23		DRE GRY MASS SOY SH		726,000	16.000
30 1				750-000	24-000
31 3		ORK GRY MASS 507 SH		769.000	19,000
		SH.		777.000	3.000
33 50		3		570.000	93.000
34 70	7	M .		909_000	37.000
35 02		CHANCH HANDED COAL		910.000	1.000
		OF MALL OF MALL OF MALE		7 103-436	12000
36 10		1		925.000	16.000
37 50		*		952.000	26.000
10		m and the second		955_000	3.000
59 02	7 - 2	CHICH BANDED COAL		956.000	1-000
		1 NA SQ 197 SQ			12000
0 10	6			963.000	7.000
1 50				1021.000	58.000
3 02		NC CRY SN+1NTERBED SS		1036.000	15.000
2 42	2.5	MARCH RANDED COAL		1038.000	2,000
2 334		TIL 20 TIL 20		244 25 8 2 2	2,000
5 021	-	K GRY SH+INTERBEU 55		1047.000	9.000
5 021		NOTION BANDED COAL 3710 30 711 30		1949,000	2.000

PAGE: 1 DIMEN MANE: 15.AND LYEEK CONFICRATION ALL DEPTH/THICKNESS DATA IN FEET

LINE	0006	ENGL ISH	COMMENTS	CUMULATIVE	1917
		***************************************		*********	
46	327	DRK CRY SH+INTERBED SS		1056.000	7_000
47	500	15		1063.000	7.000
48	324	DRK GRY HASE SOY SH		1139,000	76_900
49	104	SH		1150.000	11.000
50	021	CONHON BAKDED COAL		1150.000	.000
		ED:USA 10 US\$ 10			
51	500	25		1177-000	27.000
52	104	SH		1178.000	1.000
53	021	COMMON BANDED COAL		1179.000	1.000
		02 MIN 02 MIN 02 MIN 03			
54	322	DRK GET SH+INTERMED #4		1196,000	17.000
55	500	95		1248.000	52.000
56	550	ATC12ED SS		1254 :000	6.000
17.0		ED:MAN 10			
57	500	St		1267,000	13.000
58	550	MILIZED SE		1290.000	23,000
	* 1	ED-MOA 10			
59	324	DRE GRY MASS SDY SH		1306.000	16.000
60	500	15		1332.000	25.000
61	104	SH		1363.000	31.000
62	324	DRK GRY HASS SDY IN		1378,000	15_000
53	021	COMMON BANDED COAL		1380.000	2,000
	* 1	ED:LSB 70 LS\$ 10			
64	324	DRE GRY MASS SOY EN		1394,000	14.000
65	500	13		1407.000	13_000
54	104	SH		1621.000	14.000
67	500	Bi .		1466.000	45-000
50	322	DAK GRY SIN-THTERBED SS		1485.000	19.000
40	500	12		1488.000	3.002
70	322	ORE CAT SH-THTERBED SS		1520.000	32.000
71	300	B		1938,000	16,000
72	104	SH		1541,000	3.000
73	021	COMMON BANDED COAL		1942.000	1,000
40	* 9	ED:UNP 20 UNP 20			
74	322	DRE GRY SH+INTERRED SS		1558.000	16,000
75	500	55		1597,000	39.000
	106	34		1637.000	40.000
140	* 8	ED:BLS 10			
77	324	DAE CRY MASS EDT SH		1670.000	33.000
		ED: PLS 10			
74		38		1687.000	17_000
	104	SH		1701.000	14.000
60	500	59		1736.000	35,000
81	326	DRE GRY MASE SOY SH		1741.000	5,000
82		55		1755_000	14_000
	104	SH		1761.000	6.000
84		COMMON MANDED COAL		1763.000	2.000
4.		ED=CHP 20 1HP 20			
. 2	104	SH		1766.000	3.000
86	500	56		1811.000	45.000

PAGE: 6 CAMER WAME: ISLAND CREEK CORPORATION ALL DEPTH/THICENESS DATA IN FEET

LOG=[] DVMSAT | (VA) [2 4; 24000,7 10= 266

LINE	CODE	医维度/、15种	COMMENTS	CUMULATIVE	UNIT
****	******			**********	*********
87	324	DAK BY HARS BOY SH		1821_000	10.000
88	021	COMMON BARDED COAL		1823,000	5.000
		SED 1909 10 909 10			
89	104	SH		1837.000	14.000
90	500	55		1846.000	9-000
91	322	ORK GRY MH-INTERBED AS		1890.000	44,000
28	104	BH		1907.000	17.000
93	543	CAT SE MISH STEE		1954.000	47.000
74	550	XTLIZED SE		2054_000	100_000
	*	SED FLOW 10 LOW 10			0.000
75	500	95		2060,000	6,000
94	550	NTLIZED SS		2121,000	61-000
	41	BED:LGA ZO LGA 20			3.3.3
97	104	80		2775,000	4.000
98	500	65		2129,000	4,000
99	021	COMMON SAMUED COAL		2131.000	2,000
		PD:PC5 20 PC5 20		1078.200	
100	322	DRE ORY EN-INTERNED SE		2143.000	12.000
101	500	55		2156.000	13.000
102	550	XTL12ED 65		2160.000	4.000
103	500	55		2167.000	7,000
104	322	DRK GRY SH+INTERSED DE		2194.000	27.000
105	104	SH		2218.000	24.000
106	021	COMMON BANDED COAL		2225.000	7.000
		SED : PC3 20 PC3 20			
107	104	SN		2239.000	14,000
108	324	DRK THY MASS SOY OH		2249,000	10.000
109	104	34		2256,000	7.000
110	001	CASING OR SURFACE		2275,000	19,000

LOB-(] [VNSH]] [VA] [2 1: 24000.] [U=

IDENTIFICATION SECTION

- 1. GUAD NAME: YMENT
- 2. STATE LOCATION OF QUAD: VA
- 7. SCALE OF BUAD: 2
- 4. 106 15 1: 267
- 5.1 UMPUBLISHED RECORD, COMPANY OR AGENCY MANE! ISLAND CREEK CURP
- 5. DIVISION OR TRACT:
- 7. DRILL HOLE HUMBER: V5.92
- B. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORP
- 7. CONTELEUTINE COMPANY DERE, VS. 97

COURDINATES OF HOLE OF SECTION

- 10. I LEW ZOME I- FOR SOUTHIE LA
- 10.2 UTR WORTHING:
- 10.7 UTM EASTING:
- 15.1 COMPANY BRID M/9: 17645.94
- 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.
- 29. GROUND LOCATION DESCRIPTION:

MOREHOUS OR SECTION DESCRIPTION

- 2167-90 DRILL AMBLE 2. 21. ELEVATION AT TOP OF HOLE OR SECTION: F
- 22, KETHOR OF ELEVATION DETERMINATION:
- 23, NAME OF PERSON LOGGING! SCHLUMBERGER
- 24. YEAR DRILLED OR MEASURED: U
- 25. TOTAL DEPTH OF DAILL HOLE: F 2122, 400
- 26. BED COME REGION IDENTIFIER: NAPP
- 27. CODE OF UPPERHOST IDENTIFIABLE HED! KEN
- 28, CODE OF LUMERHOST TOENTIFIABLE BED! PCL
- 29.1 KIND OF RECORDS E
- 29. 2 HETHOD OF LITHO DESCRIPTION:
- 30.1 UNITS OF MEAGUREMENT: 21FT 1
- 30.2 NETHODISY OF MEASUREMENT: LITHE !

PERSONIS) LAST MODIFYING THIS LOS

- 31. PERSON SUBMITTING LOG FOR ENTEY, PRT
- 32. DATE OF LOG SUBMISSION (MM/ED/)/YYYII #-22-VI
- LAST MODIFIED BY: DSL

DATE: 12/11/91

USER MAJA! 999.00' HET COME DO LA!"

LOB-[] [UMSNT] [VA] [2 1: 24000,1 TB= 267

INE	CODE	ENGLISH	COMMENTS	CUMULATIVE	UNIT
1	inat	CASING OR SURFACE		****	
2	200	\$5		90.000	90.000
3	021	CONNEN SANDED CUAL		485,000	395.000
4		BEDIKEN 10 KEN 10		487.000	2.00
	500	SS SS		West 1.22	(m. 64)
300		7.75		554,000	67,000
3	100	CASING OR SURFACE		569.000	5.000
4	324	DRX SRY KASS EDY SH		587,000	2.500
1	104	SH		\$81.000	19,000
8	324	DAK BRY HASS BRY SH		584.000	3.00
4	194	SK		589,005	5.000
10	0.20	IMPURE COAL		590.000	7.000
		DED: ALY 10 BLY 10		A 100	
11	324	DRK GRY HASS SDY SH		593.000	2,000
12	500	SS		624.000	31.000
13	521	CONMON PARTIED COAL		626.000	2.000
	1 3	SEDIALY 20 ALY 20		1914 - 6	
19	324	DRY GRY MASS SDY SH		640.000	14.000
15	101	SH		461.000	21.90
16	324	DRK GRY MASS SDY SR		684.000	73,000
17	021	CONHIGH BANDED COAL		000_686	2.000
		BED: RVN 20 AVN 20		2002000	*1500
18	J24	DRK BRY MASS SOY ON		692.000	6.000
19	500	SS		798,000	106.000
20	104	EM		827.000	
21	621	COMMON BANDED COAL		829.000	29.900
-4	200	BED:JAW 10 JAW 10		0.27 1000	2.000
22	104	SN 19 VON 19		445 444	- 100
23	500	55		032,000	5.00
-		511		869.000	36.00
24	104			679.000	10.000
25	021	COMMON PANGED COM		881.000	3.00
41		BED:JAN 20 JAN 20		15 may 27 miles	A
28	324	DRK BRY MASS SOV SH		984.000	3,000
27	500	SS		932,000	48.00
.28		SH		940.900	8.00
29	724	DRY BRY MASS SDY SN		752.000	12.00
30	020	IMPURE COAL		953,000	1.00
		BEDITIL 20 TIL 20			
	324	DRY GRY BASS SDY SH		982.000	9.000
13	29-4	INPURE COAL		482:000	1.00
	4.3	BEDITIE 30 TIL 30			
11	324	DRK BRY MASS SDY SH		956.000	1.00
7.4	500	55		983,000	17.600
35	324	DRY GRY HASG SDY BN		1060,000	77.084
34	104	SH		1078.000	14.000
37	021	COMMON BANDED COAL		1074.000	,000
		SED:USE 10 USR 10		107=1100	192
38		85		1091.000	15.00
39	324	MAK GRY MASS SAY SH		1095.000	4.00
10	03.0	INPURE COAL		1096.000	1.00
-4		PED: 158 20 USB 20		10101904	2454

LOG=1 1 I VMSNT

] [94] [2 ls 24000.] 10= 267.

INE	CONE	ENEF13K	CONNENTS	CEMULATIVE	TINU
	101	SN		1000 1000	•
41	104			1043.000	3,000
42	500	59		1191.000	72,000
43	550	ITLITED SS		1211.000	20.960
		BED:HGA 10 NGC 10		No. of Street, St.	
44	030	IMPURE COAL		1212.006	1.000
-00		BED-BAC TO BUC TO		Mark Cook	
45	174	S#:		1218,000	8.94
45	500	55		1251.000	33,000
47	324	DRK SRY HASS SDY RII		1305.000	74.909
48	021	COMMON BANDED CHAL		1302,000	F. 900
		DED:158 10 LSB 10			
19	324	URK ERY MASS STY SH		1316:000	7,000
50	500	68		1328.990	12.000
51	324	DRK BRY MASS SDY (H)		1343,000	15.000
52	500	38		1377,000	54.000
53	324	URK BRY HASS EDY SH		1401.000	24.060
54	500	99		1416,000	15.000
55	324	DRM. GRY MASS BDY 58		1430.000	14,000
56	021	COMMON SANDED COSL.		1453.G00	3.000
34		BED: UNP 10 UNP 10		20000000	4.25-1
37	324	DRK SRY MASS SDY SH		1445,000	12,000
58	500	SS		1454.000	5.000
59	104	SH		1459,000	4,000
60	921	COMMON BANDED COAL		1440.000	2,096
NV.		RED:UNP 20 UNP 20		17501709	24450
61	324	DRY. GRY MASS SOY SN		1509,000	44.000
32	500	58		1520,000	11.000
63	324	DRK SAY MASS SEY SM		1570,000	70.000
00	25.4	SED: ALS 10 BLS 10		TALLSAGA	1000
44	500	SS SS		1673.000	33.090
65	164	SH		1679,000	6,000
66	021	COMMON BANDED COAL		1682.060	\$ 400
00	421	BEDILME 20 LHF 20		Ther-and	A PAGE
17	704			1743,000	61,000
	324	DRK BRY HASS SDY SM		1747-000	1,000
68	021	COMMON BANDED COML		17971000	72000
+6		BED: PC9 10 PC9 10		CTEL AND	14.600
69	324	DRK GRY MASS SDY SH		1761,000	
70	104	34		1790.000	79.000
71	324	DRK GRY MASS SDY SH		1831.000	41,000
72	500	35		1850,690	19.000
73	324	BEX BRY MASS SEV SIV		1967_000	17.000
74		NTLIZED SS		1856.000	85.000
3		BED: LOA 10 LOA 10		probability of	42.75
75	550	XILITED SS		2045.000	89.00
		9ED:LGA 20 LGA 20		Walter and	4.00
	324	DRY SAY MASS GOV SIL		2047.000	2,000
77	021	COMMON BANDED COAL		2054,000	7,00
		RED:PC5-20 PC5-20		344.8	100
76		DRA BRY HASS SDY SIL		2004.000	20.69
79	200	25		5.VE. 000	12.000

SERIAL NUM: 101092686-007-3,00

PAGE: 4 DWNER MANE: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LOG=[] [VINSINT

1 [VA] [2 1: 24000,] ID= 767

LINE	CODE	ENGLISH	COMMENTS	CUMPLATIVE	UNIT
-		Market Control of the			
80	324	ORK DRY MASS SOV SH		2115.000	13.000
87	021	COMMON BANGED COAL		2119-000	4.000
32	001	EDIPC4 18 PC4 16 CASING OR SURFACL		2122.000	J.000

T DAMER HAME: ISLAND CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LOGHT I EVENT

1 IVAL [2 1: 24000.1 ID= 272

TRENTIFICATION SECTION

- T. GLOO WARE: VIEST
- 2. STATE LOCATION OF GLAD: VA
- 3. MEALE OF QUAD: 2
- 4. 100 to er 272
- 5.1 LIMMERLY MEED RECORD. COMPANY OR AGENCY MAKE: ISLAND CREEK DORP
- 6. DIVISION OR TRACT:
- 7. ORILL WOLE WINGER: VS. 93
- 3. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK CORF
- 9. CONTRIBUTING COMPANY DONNE VS. 93

DOORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: WAS
- 12.2 STATE PLANE M/4! 3609289. 14
- 12.3 STATE PLANE E/U: 10435419. US
- 15.1 COSPANY GRID N/G: 21381.56
- 15.2 COMPANY GRID E/N: 16466.64

CIVIL OFSTREET WHERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 15. COUNTY: GUCHANAM
- 19. TOMBELLE, MAGISTERIAL EISTRICT, OF THEORPORATED PLACES

1571-000

20. EROUND LOCATION DESCRIPTION:

ROSENOLE OR SECTION DESCRIPTION

- 21. ELEVATION AT TOP OF NOLE OR SECTIONS F
- .OR DRILL ANGLE D.
- 22. HETHOD OF ELEVATION DETERMINATION:
- 23. HAME OF PERSON LOGGING: SCHLUMBERGER
- 26. YEAR DRILLED OR MEASURED! D
- 25. TOTAL DEPTH OF DRILL HOLE: F
- 26. SED CODE REGION IDENTIFIER: NAPP
- 27. CODE OF UPPERNORT IDENTIFIABLE MED: KEN
- 28. CODE OF LOWERMOST TORNTIFIABLE MEDI PCS
- 29.1 EIND OF RECORD & E
- 29.2 KETHOD OF LITHO DESCRIPTION: 100000
- 30.1 UNITS OF MEASUREMENTS ZEFT 1
- 50.2 METHOD (9) OF HEASUREHENT: 1(THE)

PERSON(S) LAST HODIFYING THIS LOG

- 31. PERSON SUBMITTING LOG FOR ENTRY! PET
- 32. DATE OF LOD SUBMISSION (SEA/OU/STTY): #-22-91

LAST HEDIFLED BY: DOL

DATE: 9/3/1992

UNER DATA: 15.50' WET DOAL >= 1.5"

Z CKRER NAME: ISLAMO CREEK CORPORATION ALL GEPTH/THICKNESS DATA IN FEET

PARE

LOS-() [VHSHT] [VA] (2 1; 24600.] 15+

LINE	cope	ENGLISH	COMMENTS	CLINUCATIVE	UNIT
	*******		** ***********		
X	001	CASTING OR SUMPACE		16,000	16.000
2	500	\$6		55.000	39.000
3	104	\$H.		90.000	35.000
4	500	51		124,000	\$4.000
3	104	34		130.000	6.000
.6	021	COMMEN BANDED COME		132,000	2.000
7	104	SH		148.000	16.000
8	000	IMPURE COAL		149.000	1.000
9	104	SK		154.000	5,000
10	021	CONHION BANDET COAL		156.000	2.000
11	104	SH HE		159,000	3.000
12	050	IMPUNE COAL		162.000	3.000
13	021	COPPHON BANDED COAL		163,000	1.000
14	104	\$N		201.000	35.000
15	500	\$8		243.000	42.000
16	104	SV		281.000	38.000
17	324	DRK DRY MASS BOY SH		292.000	11.000
18	104	EN .		299,000	7,000
19	324	DEE GRY MASS SDY SV		304,000	5.000
20	104	SN		318.000	14_000
21	324	ORK ONT MASS NOT SN		326,000	8.000
22	104	IN .		399.000	73,000
23	373	DAK DRY SH W/SS STKS		420,000	21.000
24	104	SH		488.000	45.000
25	500	55		476_000	0.000
26	104	SH		492,000	15.000
27	021	CONNEN BANDED CON.		494.000	2,000
		ED:KEN TO KEN TO			
28	104	SH		699,000	5,000
29	500	56		555,000	56.000
50	324	DRK GRY MASS SDY SH		576.000	21.050
31	104	SN		600,000	24,000
32	324	DAK GRY WASS SOY SN		613_000	13.000
23	300	\$5		632,000	19.000
34	104	SH		634.000	2-000
35	021	COMON BANDED CON.		636.000	2.000
		DEALY 20 ALY 20			
36	104	EX		682.000	46.000
37	300	68		699.000	17.000
	630	IMPRINE COAL		701.000	2,000
		ELTRYN 20 RVN 20			
39	324	DRY GRY MASS SOY SW		708,000	7,000
40	500	65		788.000	80.000
41	104	58		837.000	49,000
42	021	COPPON BANDED COAL		839.000	2.000
		0: WAL 10 JAM 10			
43	104	SH		848.000	9.000
44	300	15		869.000	21,000
45	104	38		675.000	4.000
46	021	COMON BANDED COAL		A77-000	2.000
	and the same of th	GS NWT SO TWE SO		20.00	

3 DANER MARE: ISLAND CREEK CORPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LDS-1 3 EVNSAT 7 EVA1 [2 1: 24000.] 10= 272

LINE	cone	ENGLISH	COMMENTS	CHMILATIVE	BRIT
****	******* ***********	**************	******	*********	
47	106 EH			883,000	6.000
68	500 ss			932,000	49.000
46	106 SH			953.0GQ	21.000
50	030 THPURE CONL			955-000	2.000
	# BED:TTL 20 TIL	20			
51	104 SH			965.000	10,000
52	030 IMPURE COAL			967_000	2.000
	* SEPOTIL 30 TIL	30			2.7
53	104 SN			973.000	6.000
54	326 DRK DAY MARS	SDV \$11		1004.000	31.000
55	104 SK			1066.000	62.000
56	DET CONTRACT SAMPLE	D COAL		1066.000	.000
	* RED: USB 10 USB	10			
57	500 ES			1092-000	25.000
56	104 \$8			1095.000	3.908
59	030 IMPLINE COAL			1097.000	2.000
	* BED:USE 20 USB	20			-
60	104 EH			1105.000	9,000
61	590 99			900.5è11	57.000
62	550 XTL(ZED SE			1500-000	47.000
	* BED: MOA 10 HOA	10			
63	DS1 COMMON SYMPE	D COAL		1211.000	2,000
	* BED: GTC 10 ATC	10			
64	100 59			1243.000	32.000
65	104 57			1267,000	26.000
-56	324 DAK ORY MASS	SDY SH		1283.000	14,000
67	104 SN			1273.000	10.000
68	324 DRK CRY HASS	SET SA		1310,000	17.000
69	104 39			1317.000	7.000
70	500 \$5			1340,000	23.000
71	104 SH			1344.000	4.000
72	500 99			1374.000	30,000
73	324 DAK GRY MARS	SDY SH		1382.000	8.900
74	500 55			1399.000	17_000
75	104 EN			1417,000	18,000
76	DOD INPUME DOAL			1419,000	2.000
	. BED: UMP 10 THE				2.67
77	Section and the section of the secti	SDY SH		1424,000	5.000
7.8	900 85			1440,000	16-000
79	104 58			1445.000	5.000
60	021 COMMON RANDE			1447.000	5.003
	" BED :UNP 20 DHP	20			mec.
81	104 59			1449.000	2.000
82	500 58	The same of the sa		1455.000	0,000
92	324 DRK GRY MASS			1483.000	28.000
84	DE1 COMMON BYNDE			1485.000	2.000
4.00	" BED HAND TO MAP	A STATE OF THE STA		W. C. (111)	421.523
	CALL CARLS TO STATE OF THE PARTY OF THE PART	ZDY SN		1508.000	23.000
	500 \$8			1543.000	35.000
87	104 58			1579.000	36,000
	" WED: BLS 10 BLS	10			

1-003

1 (VMSAT 1 (VA) f 2 1: 24000.1 10= 272

LIM	E LUDE	ENGLISM	COMPERTS SUMULATIVE	LINIT
	N. Sec. W. Ship	And the second s		*************
88	500	\$5		
89	104	QN	1633,000	54,000
90	500	33	1639.000	6.000
91	021	COPPION BANGED COAL	1669,000	mm 1 M / M
		DILINP 20 LIP 20	1671.000	2,000
92		20	0.000 - 40	
73	104	54	1715,000	44.000
94	150	CORNEN MANDED COAL	1739.000	24.000
		D=FC9 10 PC9 10	1742.000	3.000
95		SM .	- Carlos	
56	500	55	1753.000	11.000
97	104	SH .	1768.000	15.000
98	021	TOWACH SANDED COAL	1771,000	3_000
	* NE	:PC9 20 PC9 20	1773.000	2.000
99		RK CRY SH WAS SYCH		
100		B	1800_000	27,600
101	324 0	RK SAY MASS SOY SA	1814.000	14.000
102	500 8		1834_000	20.000
103	324 0	ak sky mass sov un	1847,000	13.000
104		ri izeo es	1867_000	50.000
	e sed	FLOA TO LOA TO	1942,000	75_000
105		FLIZED 98		10 00
74		LEA ZÓ	1987.000	45.000
106		SK SKA MIRR RDA TH	1000 000	
107	350 37	LIZED 89	1976,000	9-000
2		TON 50	2018.000	22,000
108	051 00	MMON BANDED COAL	2406.000	2000
500		PCS 10 PCS 10	2019_000	1.000
	104 31		where has	200.0
110	021 00	PRON RANDED CONL	2026.000	7-000
42.0		PCS 20 PCS 20	2029.000	3.000
N. P. W.	1GA 3N		1991/37 and	Te care
10/21/07	500 55	The state of the s	2041_000	12.000
	324 DR	GRY MASS SOY SH	2117.000	76.000
	22 00		2130,000	13.000
	124 DRI	C GRT MASS ROY SH	2141,000	11.000
116 0	151 CIR	MON MANDED COKE	2153.000	12.000
		CS 10 PCS 30	2159.000	6.000
117 0	DT CAT	ING OR SURFACE	9444 644	22.045
			2161.000	22.000

ALL DEPTRATRICENEES DATA IN FEET

LINE 7 [VHSNT | IVAJ [2 1: 24000.1 ID- M

IDENTIFICATION SECTION

- T. GUED NAMED VHENT
- 2. STATE LOCATION OF OURD: VA
- 3. SCALE OF CHAD: 2
- 4. LOG ID #2 56
- 5.1 UNPUBLISHED RECCED. COMPANY OR AGENCY MARKS (SCAND CREEK CORP.
- 6. DIVISION OF TRACT!
- 7. DRILL HOLE MANBER: L-199
- A. CONTRIBUTING COMPANY OR AGENCY! ISLAND CREEK CORP.
- 9. CONTRIBUTING COMPANY DONNE L-199

COORDINATES OF HOLE OR SECTION

- 12.1 STATE CODE: YAS
- 12.2 STATE PLANE N/S: 3610661.90
- 12.3 STATE PLANE EN: 10444171.81
- 15.7 COMPANY GRID N/5: 22998.02
- 15.2 COMPANY GRID E/N: 25175.00

CLUTE DISTRICT WHERE LOCATED

- 17. STATE WIERE HOLE LOCATED: VA
- 18. COUNTY: BUCKARAN
- 19. TOWNSHIP, WAGISTERIAL DISTRICT, OR INCORPORATED PLACET
- 20. GROUND LOCATION DESCRIPTION: THREE FORK BR.

REMEMBLE OR SECTION DESCRIPTION

- 21. ELEVATION AT YOP OF HOLE OF SECTION: F
- TERR. DO BRILL ANGLE O.
- 22, METHOD OF ELEVATION DETERMINATIONS U
- 23. NAME OF PERSON LOGGING: KEEN
- 24. YEAR DRILLED OR MEASURED: 1974
- 25. TOTAL DEPTH OF DRILL HOLE; F 1545.600
- 26. BED CODE REGION IDENTIFIER: NAPP
- 27. CODE OF UPPERMOST TOERTIFIABLE BED: ALY
- 28. CODE OF LOWERWOST IDENTIFIABLE RED: PCS
- 29.1 KIND OF RECORD: C
- 29-2 METHOD OF LITHO DESCRIPTION: T(CODE)
- 30.1 LINITS OF MEASUREMENT: 1[FIF]
- 30.2 NETHOD(S) OF MEASUREMENT: 11THK 1

FERSON(3) LAST MODIFYING THIS LOS

- 31. PERSON SUBMITTING LOG FOR ENTRY: DOL
- 32, DATE OF LOG SUBMISSION (MM/DD/YYYY): 3/2/87
- LAST MOTFIED ST: OGL
 - DATE: 9/28/1992
- LIGER DAYA: 30.06" NET COAL DET,5"

PAGE: 2 CAMER WARE: I BLANG CREEK CORPORATION ALL DEPTH/THICKNESS DATA IN FEET

LOG-1 1 DVMSMT I DVA1 E 2 1: 26000.1 ID- 66

LINE	CODE	ENGLISH	CONENTS	CAULATIVE	UMZT
	******		***************************************		
3	001	CASING OR SURFACE		12.000	42,000
2	124	DRK GRY EH		47.000	5,000
3	021	COMMEN BANDED COAL		48,000	1.000
		BED:ALY 20 ALY 20			
4	124	DRIE CRY SN		54.167	5.157
5	544	GRY WASS SS		64.500	10,333
6	124	DRK CRY SN		84-657	20_167
7	544	GRY MASS SS		05.167	-300
8	325	DHK GRY BH W/SE STEE		105.584	20,417
9	544	GRY HASS SS		164.334	,750
10	124	DRK GRY SH		110.334	4.000
17	021	COMMON MANDED COAL		112,334	2.000
		BED-BVN 20 KYN 20			-2776
12	124	DRIC GRY 3H		113.647	1.333
13	344	DRY MASS AS		155.667	42.000
74	749	CRY SS H/COAL SPARE		150.500	24,433
15	124	ORE GRY SH		181.500	7,000
16	324	DRK GRY HASS SOY SH		153.250	1.750
17	749	GRY SE W/COAL SPARS		203.585	20.333
18	544	CRY NASE SS		204.750	1.167
19	324	DER DRY MASS SOY IN		226.000	21.250
	323	DRK GET SH W/BE 57KG		250.667	74.657
21	544	DAY MARS 56		252.417	1-750
72	124	DRK GRY SH		255.334	,917
23	021	COPPON BANDED COAL		254 084	-750
23	-	BED: JAW 10 JAW 10		4000	
26	124	DAK GRY SN		259,251	5.167
25	544	GRY HASS SE		291.334	32.083
26	343	CRY \$5 W/SH STES		299.001	7.667
27	021	COMMON MANDED COAL		300.501	1,500
-	1.	BED:JAW 20 JAW 20		23,000	30,646
28	124	DRE GRY EN		303.418	2.917
20	544	GRY MASS SS		323.335	21,917
30	124	DRK GRY Sh		325,585	_250
31	540	CRY SS	COAL STREE	350.165	24.583
32	540	GRY #S	MAL STREE	391.001	40.853
100	021	COMMON BANGED DOAL	and divide	391.554	.Say
9		BEDET(L 10 TIL 10			
34	544	GRY HASS BS		392.667	1.083
35	021	COMMON BANDED COAL		393.667	7.000
100		MOITIL 20 TIL 20		24-12-1	
34	124	DRE GRY SH		395.250	1.583
37	021	COMPON BANDED COAL		396,500	1.250
-40		BEDETIL 30 TIL 30			75-04
58	124	DRK GRY SH		397.500	1.000
	543	GRY SS W/SH STES		399.250	1.750
	323	DAK GRY SH W/SS STES		484.167	84.917
	124	ORK GAT SH		486.000	1.833
	021	DOMEN BANDED DOAL		486.583	.583
-	200	NED:USE 10 USH 10		466.6	

LOGS [] [WESKT

1 EVAL E 2 1: 24000.1 (0: 44

7-	ME CODE	**	ENG. ISN	COMPATS	SVITALISMOS	UNET
	Sec. 115		22477400767677		*******	*********
	63 126	DRE GRY SH			492.166	
	44 BAD	BR VA		COAL STREET	541.249	5 .583
	45 724	DRUK SHY SM		THE STATE	545.082	49,003
	46 543	MAY SE HISH STES				3,633
	47 124	DRK GRY SH			580.082	15.000
	48 018	SOY SH MEDFLOW			632,749	72.667
-	49 021	COMMON BANDED COAL			638.999	6.250
		BED: GYC 10 GYC 10			639.166	.167
	126	DRE GRY SN			640-166	
	51 32A	DRK GRY MASS SOV S	ile -		645,166	1.000
	2 544	GRY MASS SS			664.166	19.000
- 10	3 544	GRY MASS 55			674,749	10.583
-	124	DRIC GRY SH			687.749	15.000
	5 543	DRY SS W/SN STKS			720.582	32.633
-	6 324	DESC CON MASS SOY S			733,165	12.543
	7 124	DAK GRY SH			735,082	1.917
2	9 021	CORNON BANDED COAL			735,999	.917
5		ED: MSB 20 MSB 20			******	-34
6	0.01	DRK SHY SA			757.332	1,333
6	107.0	DAK GRY SH			740.165	2.433
5		GRY 85 W/SH STKS			751_498	11.333
63		DRK GRY SH			764,531	12.833
~		COMMON BANDED COAL ED:LSB 10 LSB 10			764,581	.250
44	124	DEE CON ON			16.40.42	100
55	1.731	CONSIGN BAHDED COAL			770.498	5.917
20		ED:LSB ZO LSB ZO			771,268	.750
66		DRK BAY 28				
67		GRY SS H/BH STES			773.748	2,500
68		DRE BRY SK HASE BYE			837.561	63.833
59		DAK GET SH	•		262,414	24,833
70		CONSIGN BANDED COAL			SE1.997	19.583
	* 86	D:UNP 10 UNR 10			883.747	1.750
75		DAK GRY SN			San San	- 70
72		DRY MASS SS			884,247	.500
73		COMMON BANDED COAL			688.164	3.917
	10 A	BEUNP ZO WAR ZO			670_081	1.917
74	100 cm in 100 cm	DRX SXY SM			0627.0-0	
75	543	CRY SE W/SH STXS			891.998	1.917
76		DAK INY SH W/39 STKS	L.F.		909.331	17.333
77		DEK GRY SH			923.740	16.417
78		COMMICH BANDED COAL			926.331	.583
	* 95	TIME TO MMP 10			921.748	1.417
79	154 0	IRK GRT SH			200 200	2 2.00
60		IRY SE WISH STES			933.665	5.917
	124 0	RE GRY SH		and .	955.332	21,667
95		RK GRY SH		-	1005_749	50.417
83		COMON BANDED DOAL			1018.466	12.917
ς.	, RED	THE 10 MG 10			1022.333	3.667
84	126 0	RE GRY SN			4000 000	
					1024.333	2.000

LOGE [] FYMANT] [VA] [2 1: 24000.] ID= 6

,L	INE CO	10	ENGLION C	CHNENTS	COMPLATIVE	TINU
	~ ~ ~	11.0 0.30 0.33 0.73 0.75 0.75		*******	**********	
	85 124	DAK GRY SH			100 M 100	
	86 126	DRX DAY SH			1031.000	6.667
13	67 021	CONNON BANDED COAL			1035.043	4,083
		" BED: VRC 20			1033 .416	.553
	451 68	DRK CRY SH			2000 000	
	89 021	CONTION BANDED COAL			1056.083	.657
	- 0	* 860:URC 20			1057.000	-917
	90 544	GRY MASS SS	COAL and		12 20 A C	
1	77 126	DRIE GRY SN	COAL ST	NED.	1076_167	39.167
- 4	92 021	COMMON MANDED COAL			1076.750	,583
		BED: LHP TO LHP TO			1077.667	1917
- 5	73 124	DRIC GRY SN			Charles and	
	4 124	DAK GRY SH			1081-250	3.583
9	5 540	GRY SS	LIDAL SYA	ve.	1082,583	1.333
	124	DRK ERY SH	mont, 318	R.S.	1997.000	14-417
9	7 021	COMMON BANDED COAL			1078.563	1.585
		BED : LNP ZO			1099_500	.917
	8 540	GRY SS	COAL SYRI	100	200	1.000
9	0 021	COMMON BANDED COAL	was also		1099.750	.250
		BED:LMP 20			1100.417	.667
10		DRK GRY SH			1444 144	an dra
10	200	KTLIZED SE WISH STAS			1103.417	3.000
70;		DRY 3S	COAL STRE	12	1155.084	69.667
103	100	DRK GRY EN	Agre 310s		1169.001	15.917
104	77	COMPANY BAMDED COAL			1174,084	5.083
450		BED:PEF 10 PEP 10			1175.617	1.333
105		DRK GRY SH			1974 (17	(2) 050
106	-	COMMON BANDED COAL			1176.417	1.000
		BED:PC\$ 20 PC9 20			1178.250	1.833
107		DRK GRY SH			1181.500	-
108	1.00	DRK GRY SH H/SS STR			1724.583	3.250
109		DRK GRY SH			1225.750	43.085
110	021	DOMMON BANDED CORL			1226.667	1-167
140	0.00	NED:PC8 10			1520.007	.917
111		DAK GRY SH			1227.300	200
112		CONNON BANDED COAL			1228,063	. 533 .583
110		ED:PCB 10			1400,000	1303
		DRK GRY SH			1230,616	2.333
		DRK GRY SH M/SS STKS			1266.499	36.093
.,(5		HARD SS W/SH STRE			1284.499	18.000
114		ED:LOA O			10001320	14.000
		GRY SS W/SH STES			1298.166	13.667
	-2-5	DAK GRY SH W/SS STES			1512.249	14.003
		ATLIZED MASS SS			1377.499	65.250
111		XTLIZED OTZ PER CGL			1402_166	24.667
120	the second	ED:LOA O			4.4	Per - Mar
121	Acres de	DRK GRY SH			1406.164	4.000
196.5		COMMON SANDED COAL.			1407.499	1.333
122	120				2011.442	
		DRE GRY SH			1410.832	3,333
					22.23	-15

S CHUER HAME: ISLAND CREEK CORPORATION ALL DEPTM/THICKNESS DATA IN FEET

SERTAL NUM: 101092685-003-3.00

LOG-[] CYNENT] CVAD [2 1; 24000.] ID= 56

LI	ME CODE	ENGLISH	COMPRENTS	CUMULATIVE	UNIT
	EV 3	a secondariament of the second	**************	********	
12	23 324	DRX GRY MARS SDY SN			
13	84 543	GRY 59 W/SW STES		1425.999	13.167
12	5 124	Dat ony sh		1435.999	12.000
Ye	5 021	CONNON BANDED COAL		1445.832	9.833
		RED:PCS 10		1647.165	1,333
12	7 034	DONE		6,550	
		RED=PC5 TO		1447.207	.042
12	E 123	DRK GRY SH W/COAL STES		Y	
12	9 126	DAK GRY SH		1448_249	1-042
13	0 029	COAL W/PYRITE STEE		1453.605	5.417
		NED:PC5 20		1453.874	.208
13	1114	BLE SN		\$16.0 mm	
13	1 051	CONNEN MANDED COAL		1454.332	- 654
133	123	DRE GRY SH W/COAL STED		1454.499	. 167
134	021	COMPON RANDED COAL		1454.749	-250
		BEO : PCS 20		1457.749	3.000
135	123	DRK DOY SH W/COAL STICS		0.00cm n.m.	1
136		GRY MASS SS		1457.999	.E50
137	021	COMMON SANDED COAL		1495.416	37.417
	- 1	BED:PC4 10 PC4 10		1501.541	6.13
138	749	GIT SE U/COAL SPARS		200.00	1000
159	1000	DRE GRY SH	910	1531.666	30,125
140	150	COMMEN BANDED COAL	*10	1533,958	2.292
200		ED:PCS 1D		1534.771	.813
141	-	COAL W/ROME STICE			100
		ED: PC3 10		1535,334	.563
142	1,000	SM CLANDIFS		Acces on a	10.7
143	027	COMMON BANDED COAL		1535.355	150
Acres 1		ED:PC3 20		1535.563	.208
144	100	SH (UNDER)		1440	100.00
745	051	COMMON BANDED COAL		1555.384	,021
300		ED:PC3 20		1539_626	4.062
946	022	BONE W/COAL STXS			0.00
147	100	SH LUMDIF)		1539.793	-157
768	033	BONE WICOML STICE		1534.981	. 188
WY AT		0:PC\$ 30 PC\$ 30		1540.210	.229
749		ELK SH W/COML STKS		1915	267.6
150	124	DRK GRY SH		1540.710	-500
				1545,523	4.813

TERIAL NUM: 101072686-003-1.00

PAGE:

A CHIER MARE: ISLAND CHEEK CORPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LDG=1) TVPERNT

1 (VA) [2 1: 24000.] Ibs

IDENTIFICATION MECTION

- 1. QUAD MAKES VHENT
- 2. STATE LOCATION OF GUAD! VA
- 3. SCALE OF MADE 2
- 4. LOG TO St
- 5.7 IMPRIBLIBNED RECORD. COMPANY OF AGENCY HAND: ISLAND CREEK COAL COMPANY
- 5. BIVISION OF TRACT:
- 7. DRILL HOLE MANEER: L-201
- 5. CONTRIBUTING COMPANY OR AGENCY: ITLAND CREEK COAL COMPANY
- 9. CONTRIBUTING COMPANY DONN: L-201

COORD INATES OF HOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/B: 3609502.55
- 12.3 STATE PLANE E/V: 10437585.60
- 15.1 COMPANY BRID H/8: 21655.30
- 15.2 DAPANY GAID E/N: 18625.56

CIVIL DISTRICT WHERE LOCATED

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

BOREHOLE DA SECTION DESCRIPTION

- 21. ELEVATION AT TOP OF HOLE OF SECTION: F TSAO, DO DRILL ANGLE U.
- 22. NETHED OF ELEVATION DETERMINATION: U.
- 23. MANE OF PERSON LOGGING: NOTT
- 24. YEAR DAILLED OR MEASURED: 1977
- 25. TOTAL DEPTH OF DRILL HOLE: F 7666.100
- 26. AED CODE REGION IDENTIFIER: NAMP
- 27. CODE OF UPPERMOST IDENTIFIABLE BED! ALY
- 28. CODE OF LOWERPOST (DENTIFIABLE BED: PCT
- 29.1 KIND OF RECORDS C
- 29.2 METHOD OF LITHO DESCRIPTION: TECCOE
- 30.1 UNITS OF MEASUREMENT! TEFTE 1
- 30,2 METHOD(S) OF MEASUREMENT: TITHE I

PERSON(S) LAST MODIFYING THIS LOW

- 31. PERSON SUBMITTING LOD FOR ENTRYS ENF
- 32. DATE OF LOG BURNISHION (MM/DO/TTTY): 10

LAST NODIFIED BY: DEL

DATE: 9/3/1992

USER DATA: 16.651 NET COAL >= 7.51

ALL DEPTHYTHICKNESS DATA IN FEET

LOG=[] [VASNT] [VAI (2): 24000.] [0=

LINE CODE	ENGLISH	COMMENT	CLIMULATIVE	UNET
		**********	*********	******
	SING OF SURFACE		12.000	40 000
	EZ BEAN		42.167	12.000
	GRY SH		48.250	30,167
	PHON SAMUED COAL		48,452	6.DE3
	LY 20 ALY 20		40,430	-205
	GRY SH		52,625	1.00
	CRY MASS SOY SH		54.792	4.167
	MASS SS		55.792	2.167
	DAY SH		56.167	1,000
	MASS SS		56.667	-375
	GRY SH N/SS STYS		59.334	.500
	GRY WH		86.58A	27.250
	KIN SANDED COAL		25.834	Die of Door
The state of the s	M 10 RVN 10		100	-250
The second secon	er m		87.584	.750
	DRY MASS SOY SII		701,001	13.417
	GRY SH		113.731	12.750
and the second s	OM SANDED COAL		114.751	1.000
	8 20 KVN 20			12000
Contract of the contract of th	CETY SH		117-001	2.250
100	NASS 99		202.334	65.333
9	GY 811		246.667	64.333
Amaga.	ON MANDED COAL		247.500	,833
	2 10 JAN 10		20.000	1043
	M65 33		254,063	6,583
The second second	ean an		285.166	34.003
	11.0		306.249	18.083
NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	om Banded Coal 1 20 Jan 20		307.999	1.750
1-0: 3-1	RY SH			744.20
1. Acres 14	MS\$ 38		312.416	4.417
2001 10	# BAHDED COAL		325.633	13.417
	AUS SE		325.916	. 983
200	S W/COAL SPARS		338.853	12.917
30 126 DAK G			340.833	000,5
mile m	H BANDED CONL		365.033	24,250
No. of Street,	20 TIL 20		366,000	-917
32 124 DRK G				
4-1	BANDED COAL		374-750	8,750
A	30 TIL 30		375.667	.917
34 124 DRK G				
	IV PASS SOV SN		376.336	,667
36 566 ter M			385.001	8.667
700	7 MASS SDY SH		386,001	1,000
30 564 (RY NA	\$5. 9S		359,001	3.000
	Y HASS SOY SH		399.334	10.333
40 124 DRK GR			405.417	6.083
2011	SANDED COAL		465.750	60.333
* BED:USB	10 USB 10		465_917	-1A7
42 124 DRK GR			Sec. V.	
			472.667	6.750

FARE:

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

LOG-1 1 (WHENT 1 (VA) 1 2 1: 24000.1 (D+ 6

LONE	CODE	EN	ABLISK COMENTS	CUMULATIVE	UNIA
4577	204		***************************************	CALL NO.	CO CAL
1000	324	DRE BRY MASS SOY SH		476.417	3.750
44		GRY MASS 56		498.667	22.250
- 5	759	GRY SS W/COAL SPARS		500.667	2.000
44	40.	COMMON ENABLED COAL		501.334	.667
16		DED (USB 20 USB 20		470 601	200
47		CAY KASS SS		120.001	18.667
42	749	ORY SE W/COAL SPARE	No.	534.418	14.417
49	344	GRY NASS EG	YES	534.501	.063
50	544	GRY MASS SS		554.501	20.000
51	564	HARD NASS IS		615-001	80,500
**	400	SED :NOA O NOA O		444 994	.033
52		COMMON BANDED COAL		615.234	.033
-		BEDIETC 10 SYC 10		617.634	2.000
53	124	DRE GRT 6H		651.584	33.750
55	124	DRE SEY SH		678.301	18.417
56	124	DRIC GRY SM		704.834	34.833
57	021	COMMON BANDED COAL		705_147	. 333
31	100	BED: MSB 20 MSB 20		142-141	.403
58	124	DRK TRY SH		707,167	4,000
59	544	GEY MASS 82		711,750	2.583
60	126	DRK CRY IN		731.585	19.633
61	544	CHY HASS BS		739.164	7-593
62	124	DRE DRY SH		739.599	,433
63	543	DRY SE W/SH STAS		759,499	19.500
64	544	DRY DASE SS		777,499	18,000
65	749	DRY US W/COAL SPARE		778.665	1-167
68	124	DINC GRY SN		781.166	2,500
67	749	GRY SE W/COAL GRARE		797.499	16.333
65	546	CRY MASS SS		503,499	6,000
69	543	GRY SE W/SH STEE		316.999	13.500
70	325	DRIC GRY SH W/SS BTKS	. 7	M35.166	18.167
71	150	COMMON BANDED COAL		835.499	,333
		BED:UNP 10 UNP 10			
72	124	DRK BRY SW		838.499	3.000
73	344	GRY PASS SE		861.666	23.167
74	124	DRK GRY SH		999. EAS	2.333
75	621	DOTAKON BANDED COAL		864.499	.500
		DE UND OR WINT DES			
76	124	DEX DEY IN		665,999	1,500
77	324	DRE OF MASS SOY SH		869,244	3.250
78	543	GRY SE W/SK STKS		902.999	33.750
79	124	DRE GRY SN		903.416	-417
-50		COMEDN BANDED COAL		904,333	.917
		BED: NIP 10 MUP 10			
		DRK GRY SP		909.500	5.167
	323	DEK CHY SH W/SS STKS	V.	912,333	2.833
	543	CAT SE WISH TEKS		918.500	4.167
84	1.0	BE PRAN YND		937.000	18.500
85	543	GRY SS W/SH STES		941.000	4.000

ALL DEPTH/THICKNESS DATA IN FEET

1 (VA) [2 1: 24000.1 (0:

PAGE:

LIKE	CODE	EASL/SH	COMMENTS	CUMULATIVE	UH31	
-	200		A SHOULD SEE SEE SHOULD SEE SEE		200022004	
85		DRE GRY SW		796.GES	55 023	
87		SED: MIC TO		997.083	1.000	
8.0	124	DRK GRY SH		998.000	-917	
39	021	COMMEN BANDED COAL		995.583	.583	
90	124	DRC SRY SR		997, 156	.583	
21	021	COMMON MANDED COAL		999.749	.583	
		DED & WAS TO				
92	124	DRK DRY SH		1001.999	2.250	
93	544	GRY MASS BY		1009.582	7.583	
94	124	DRK GRY EN		1010.082	-500	
95	021	COMMON MANDED COAL		1010.249	.767	
144		BED: HRC 20 UNC 20		200		
96	124	DEK GRY SH		1012.666	2.617	
97	324	DRE SAY MASS SOY SH		1013,166	2,500	
98	544	GRY MASS 59		1047-999	32.633	
99	124	DRE GRY EN		1031.992	4,000	
100	543	GRY 88 W/SH STES		1057.749	5.750	
107	324	DRE GRY MASE SOY SN		1069,249	11.500	
TOZ	724	DEC MEY ON		1071.249	2.000	
103	021	COMON BANDED COAL		1072.582	1.333	
-		BED:LWP 20 LNP 20				
104	124	DRE GET SH		1074.915	2.333	
105	324	DAN GRY MASS SOY SH		1118.498	43.583	
104	724	DRE SRY SH		1134.996	16,500	
107	150	COMMON BANDED COAL		1137,498	2.500	
	+	BED:PC# 10 PC9 10				
108	114	HLK SH		1148.248	10.750	
109	324	DRK GRY HASS SOY IN		7101-258	13.000	
710	124	DRE ERY SH		1166.496	5.250	
117	021	COMMON BARDED COAL		1167-165	.667	
		DED:DC9 20 PC9 20				
112	124	DRIC GRY SH		1165,582	1.417	
113	324	DRK ERY MASS SOY SH		1192.582	24,000	
114	523	DRE GRY SH W/SS STES		1217.249	24.667	
119	324	ORK DET MASS SOY SH		1253.182	16.333	
116	563	MARD SS W/SH STKS		1241.165	7.583	
117	324	DRK GAY MASS SDY SH		1249,332	6.167	
	174	BLK SH		1250.749	1,417	
119	124	DRE DRY SH		1259.332	B.583	
120	563	WARD SO W/SM STAR		1262,002	2.750	
	544	GRY MASE SS		1270.415	8,333	
153	-	ETCJZED NASS 88		1432.332	161,917	
	0.00	NED : LOA O LOA O		4.0		
123	124	DRE GRY SH		7434.002	1.750	
124	120	COMMON BANDED COAL		1634.832	.750	
		NED: PCS 10 PCS 10		VART LAND	345	
	124	DAK BY SH		1435.249	.417	
	324	DEC ORT MADE SOT SH		1444.999	9.750	
127	124	DRK SRY SH		1445.999	7.000	

PAGE: 3 DAMER MAME: ISLAND CREEK CORPORATION ALL DEPTHYTHICKNESS DATA IN PEET

LDG-1 | DWSNY | T DWAY 1 2 1: 24000.1 10- 7

LINE	CODE	ENGLISM	CONCRES	CHALLATIVE	UNIT
	******	· · · · · · · · · · · · · · · · · · ·			*********
43	322	COR DRY SW W/SS STKS		678.156	12,417
4	543	ORY SE WEN STRE		480.333	2.667
45	324	DEE GRY MARS SOY AN		505.416	24.585
46	324	DAK GRY MASS BOY SH		507-416	2.000
47	124	DEK GRY SH		508.416	1,000
48	324	DRE SRY MASS SDY TH		526.416	18,000
49	124	DER GRY SH		523.916	7,500
50	023	COAL WISONE STES		534.063	-167
		BED:MSB 20			
31	124	ORK MY SH		934.583	.500
52	021	CONONI BANDED COAL		534.916	.333
		BED : 1880 20			
53	124	DAK GRY SH		540.916	6_000
54	326	DEK ORY HASS SOY SH		550.416	9.500
55	124	DRK CRY SH		350.916	.500
56	324	DRK GRY MASS SOY SH		558.916	6.000
57	544	GRY MAIS 55		575.166	18,250
38	544	CRY HARS SS		586,166	11.000
59	324	DINE GET MASS SOY SH		597.853	13.667
60	324	DRY GUY MASS SOY SH		523,416	23.583
61	021	COMMON SANDED COAL		624,249	.633
		BED:UNP 16 UNP 10			
12	124	DRE COY SH		627.749	3_500
63	544	GRY WASS SH		647.166	19.417
64	544	GRY WASS 85		654.766	9,000
45	124	DRK GRT SH		656.333	.167
66	021	CTHMON SANDED COAL		456.750	.417
	41	KED LUNP 20 WIP 20		22.4.792	
67	324	DRE SEY WASS SOY SE		670.833	14.083
68	324	DRK FAT MARS SET IN		679.853	9.000
69		BRK CRY SN		697,616	7,583
70	021	CONSIGN SAMEED COAL		687.666	.250
		HEO: MUP TO MIP TO		(30) (40)	18.77
71	324	DAK SKY MASS SDY SH		697.566	10.000
72	324	DRK GRY WASE SOY SH		711,633	14.167
73	544	GRT MAGE SE		722.583	10.750
	564	GRY MASS SE		736.666	14.083
	124	DRIC GRY BH		745.916	9.250
		ORK GRY SH		752,666	6.750
	124	DRK GRY 64		773.749	21,083
78		XTLIZED MARS SS		776.632	3.085
79	553	XTLIZED ES W/BH STEE		785_832	9,000
60	344	GRY MASS 84		794.632	9.000
21	324	DRIC GRY MASS EDV SH		801_915	7.003
82	324	DRK GRY MASS SOT SH		614,415	12,500
	124	DRUC GRY SH		814.748	.533
84	Contract Con	COMMON MARGED COAL		014-915	_167
		ID MAC 20 SAC 20		4 4 4 4 4 4	-12
35	124	DRE CRY SH		815.632	.917
	564	GRY MASS SS		868.165	32.333
		The state of the s			

LOGE! I EVAISIT

1 NAJ [2 1: 24000] 10- 7

DENTIFICATION PERTICAL

- ELAD WAVE : VERMY
- Z. STATE LOCATION OF GLAD I YA
- 3. SCALE OF MADE 2
- 4- LDC 10 M: 71
- 5.1 UNFINELISHED RECORD, COMPANY OR AGENCY NAME: ISLAND CREEK CORP.
- 6. DIVISION OR TRACT:
- 7. DRILL HOLE MANDER: 1-206
- A. CONTRIBUTING COMPANY ON AGENCY: INLAND CREEK COMP
- P. CONTRIBUTING COMPANY DONG: L-206

COORDINATES OF MOLE ON SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE H/S: 3613713.79
- 12.3 STATE PLANE E/N: 10437927.33
- 15.1 CIMPANY 0210 N/S: 25875.00
- 15.2 DOWNEY GRED E/U: 18850.00

CIVIL PISTRICT WERE LOCATED

- 17. STATE MERE MOLE LOCATED: YA
- 18. COUNTY: BUCKAHARI
- 19. TOWERLIP, MAGIETERIAL DISTRICT, OR INCOMPONATED PLAGE!
- 20. GEOLINO LOCATION DESCRIPTION:

BOREHOLE ON SECTION DESCRIPTION

- 21. ELEVATION AT TOP OF HOLE OR SECTION: F
 - TION: F 1395.00 DRILL ANGLE O.
- 22 METHOS OF ELEVATION DETERMINATIONS IF
- 23. MANE OF PERSON LOGGINS: BAILEY
- 24. YEAR DRILLED OR HEARINED: 1977
- 25. TOTAL DEPTH OF ORILL NOLE: P 1341.000
- 26. NED CODE RESIDE IDENTIFICE: MAPP
 - 27. DUNE OF UPPERHOUT IDENTIFIABLE RED: LAW
- 28. CODE OF LOWERHOST IDENTIFIABLE RED: PCS
 - 29.1 TIME OF RECOME: C
- 20.2 METHOD OF LITHO DESCRIPTIONS LICE
- 30.1 LALTS OF MASSAGRENTE TEFER 1
- 30.2 NETHODIST OF MEASUREMENT: 10THE 1

PERSON(S) LAST MODIFYING THIS LOG

- 31. PERSON BURNITTIES LOG FOR ENTRY: DEL
- 32, DATE OF LOG SURRESSION (MA/CO/TTTT): 3/2/37
- LAST MOOTFIED BY: DOL

DATE: 9/3/1002

USER DATA: 17-21' HET COAL >= 1.5'

SERIAL MUN: (C1092888-003-3.00

PAGE: 5 OMMER MANE: ISLAND CREEK CORPORATION
ALL DEPTHYTHICKNESS DATA IN FEET

LOG+E 1 TYMENT 1 EVAL E 2 1: 24000.3 10- 6

LINE	CODE	ENGL 191	COMMENTS CA	MALATIVE	UNIT
				*******	*******
125	021	COMMON BANDED ICCAL		1446.249	-250
		850 PG\$ 28			
129	417	BLE SN		1446.499	.250
130	D21	COMMON BANDED COAL		1447.499	1.000
		BED:PC5 20		page of dis	Contract.
131	124	DAK GRY SN		1458.249	10.750
132	544	GRY MASS SE		1498.916	35.667
133	021	COMMON BANDED COAL		1498-833	4.917
		SED1PC4 20 PC4 20		ATT TO	VATE OF STREET
134		GRY MASS 95		1512.250	13.417
135	124	DRK DRY SH		1519.250	7,000
134	324	DAK GAT MASS SOY SII		1541,500	22.250
	214.74	DLK SH		1541.667	-167
138	025	COAL MYSCHE STES		1542.813	1.166
		MED: DES 70 PCS 70		WATER OF	
139	124	DOK GRY SH		1545.084	, 271
140	023	COAL W/BONE STES		1544.584	1.500
141	124	DEE MY SM		1564.647	.063
142	029	COAL W/PYRITE STKS		1544.668	2.021
143	034	DONE NOT THE STATE OF		1546.793	.125
144	023	STAL WESSIE STAS		1547, 109	.396
42.		BEDIFICS 20		1201110	1410
125	150	COMMON SANDED COAL		1547.189	.000
1100	125	0ED:PC3 30 PC3 30		12417100	3000
146	113	BLK SN W/COML STKS		1547.814	.625
147	124	DEK GRY WIN		1557.564	9,750
148	324	DRK GET HASS SOT SX		1568.167	10,383
349	126	DOK GRY SW		1582.814	14,867
150	021	CONNON BANDED COAL		1583.147	.313
777		SED-PCZ 10 PCZ 10			
151	124	DRE SAY SH		1585.147	2.000
152	324	DEE GRY NASS SOY SH		1616.314	31.167
153	124	DRE GRY SH	18	1618-064	1.750
154	027	DOWNEN BANDED COAL		1619.647	1.583
1000		SED:001 10 PC1 10		-	635.46
155	124	DAX CRY SH		1620.647	1-200
156	324	DRE DRY MASS SOV SH		1646-064	25.417

108-1 1 [VASH] 1 [VA] [2 1: 24000.1 104

LINE	CODE	ENGLI	SH COMMENTS	CLEGILATIVE	UNIT
				**********	*********
87	554	KYLIZED PASS SS			
88	324	DIE CHE HASS FOY SH		B45,665	,500
59	021	COMMON RANCED COME		849.498	.633
	* B	EDELMS 10 LMP 10		850.998	1.500
.90	124	DRK ERY SN			
91	021	COMICH BANDED COAL		857.748	6.750
	* 8	ED; LNP 20 LNP 20		859.415	1.667
92	124	DRE DRY SH			
93	324	DRK GRY NASE SOY SH		580.082	-667
94	554	XTLIZED MASS 62		883.832	25,750
95	324	DRY CRY MASS SOY IN		886.632	5.000
96	124	DRK BRY IN		897,499	5.667
	021	CONSIGN BANDED COAL		920.749	23.250
		#:PCP 10		921.999	1.250
98	023	COAL WISCUE STICE		1 N V 1	10007
	* 12	D:PC9 10		922.332	.333
99		DRE GRY SH		2000	
100		ORE CRY MASS SOY ON		937.332	15,000
	77	ORK SHY SM		P64-415	7.083
102		COAL W/GONE STKS		955.615	11,000
		1979 20		956.165	,750
105		PRK GRY SH			1,180
		DISCON MANOED COM		956.498	-333
		:PCF 20		957.248	.750
105 1		RK GRY SH			
106 3		RK ORT MASS SOV SH		957.748	,500
107 3	26 1	RE GRY MASS SOY SH		966.748	9.000
106 5		TLIZED BE WISH STEE		991,331	24.983
109 1		AK DRY SH		997,414	6,083
100		TI 12ED MASS SS		1014.851	17.417
111 3		RK CHY HASS SOY SH		1015.154	1.333
112 5		TLIZED HASE BS		1019.247	5.0E3
113 3		HK GRY MASS SOV SH		1030_580	11.333
114 12	74	IK GRY SH		1452,080	1.500
115 32		UC GRY MARS SOY SH		1041.330	9.250
116 55		LIZED MASS SE		1053,330	12,000
		LOA ()		1156.663	103.533
717 53		LIZED WAS SS	200		
118 56		RO MASS SE	PEB	1166.413	9-750
119 12	41	K GRY SN		1174.413	9.000
120 75	- 00	LIZED SS W/COAL SPARS		1176,413	2.000
121 55		LIZED MASS SS		1177-246	-B33
122 32		E GHY MADS SOY SH		1183.246	6,000
123 55		LIZED NASS SS		1183.996	-750
- 4	. BED:			1215.579	31,583
134 02		SHOW BANDED COME			
7	* BED:			1216,079	.500
125 128		ISTY SH			
126 021		SHOW EALMOST COAL		1216.266	-167
127 124	1,55	ORY SH		1216.329	.083
				1217.162	-833

LOG-E T EVHENT

1 TWAN 1 2 T 24000-1 10= 71

LZM	CODE	ENGLISH	COMMENTS	CUMULATIVE	Un17
***		* *************************************	*******	*******	**********
128	030	IMPURE COAL		000 C 1000	
		BED:PCS 20		1217.329	-167
129	124	DIOC GRY SH		deservice.	435
130	344	CRY MASS SE		1217_496	.167
131	124	DRK GRY SH		1268.246	50.750
132	021	COMMON BANDED COAL		1285.829	17.583
		SED: PCA 20 PCG 20		1292,412	6.583
133		DRK BRY SH		Tacca con	
134	544	GRY MASS BS		1293.412	1.000
135	124	DEK GRY SH		1307.329	13.917
136	021	DOGGICAL BANGED COAL		1307.412	,083
-		Ep:PC\$ 10 PC\$ 10		1308.193	-781
137	123	DRE GRY EN W/COAL STIES		-/AL	
135	021	CONSCIN BANDED COAL		1305.339	.140
		ED:9C3 Z0		1310.745	2.406
139	124	DRK SKY SN		50 M M 100	
140	021	CONSIGN BANDED DOAL		1310,755	.010
		ED:PC3 20		1311-943	1,188
141	021	COMMON BANDED COAL		TOWNS CO.	200
	* 8	ED:PC3 30 PC3 30		1511,943	-000
142	124	DRK GRY EN		1242 212	See and
143	324	DAK GRY MASS SOY SH		1327-401	15.456
				1541,234	73.833

SERIAL NUM: TC1092686-003-3-00

FAGE: I DIGHER HANE: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOG-[1 DYNSHT | TYAD [2 1: 26000.) TO- 7

IDENTIFICATION SECTION

- I. QUAD HAME: VHISHT
- 2. STATE LOCATION OF QUAD: VA
- S. SCALE OF GUAD: 2
- 6. LOG 10 #s
- 5.1 IMPUBLISHED RECORD. COMPANY OF AGENCY MANE: ISLAND CREEK COAL COMPANY
- 5. DIVISION OR TRACTS
- 7. DRILL HOLE WARREN: L-221
- S. CONTRIBUTING COMPANY OR AGENCY: ISLAND CREEK COAL COMPANY
- 9. CONTRIBUTING COMPANY DOMM: 1-221

DOND INATES OF HOLE OF SECTION

- 12.1 STATE DODE: VAS
- 12.2 STATE PLANE N/S: 3608657.64
- 12.3 STATE PLANE E/N: 10441114.15
- 15.1 CHPANY GRID N/6: 20909,00
- 13.2 COMPARY MRID E/N: 22177.00

CIVIL DISTRICT SHERE LOCATED

- 17. STATE WHERE HOLE LOCATED: VA
- 18. COUNTY:
- 19. TOWNSHIP, MAGISTERIAL PISTRICT, OF INCOMPORATED PLACE.
- 20. CHUND LOCATION DESCRIPTIONS

MOREHOLE OF SECTION DESCRIPTION

- 21. ELEVATION AT TOP OF HOLE OR SECTION: F 1685.00 DRILL ANGLE C.
- 22. METHOD OF ELEVATION DETERMINATION: U
- 25. MANS OF PERSON LOGGING: COAL DRILLING
- 24. TEAR MILLED ON HEASURED: 1974
- 25. TOTAL DEPTH OF DELLE HOLE: F TAGO. COU
- 26. NED COME REGION IDENTIFIER: NAPP
- 27. CODE OF UPPERMOST IDENTIFIABLE BED: JAN
- 28. DONE OF LOWERHOST IDENTIFIABLE BED: PCZ
 - ZP.1 KIND OF RECORD: C
 - 29.2 METHOD OF LITHO DESCRIPTION: \ (CODE)
- 30.1 UNITS OF MEASURENENT! TIFEF 1
- 30.2 METHOD(S) OF MEASUREMENT: 1(THK)

PERSON(8) LAST MODIFYING THIS LOG

- 31. PERSON SUMMITTING LOG FOR ENTRY: KUP
- 32. BATE OF LOG SUBMISSION (MM/OD/YYYY): 10
- LAST MODIFIED BY: DOL

DATE: 9/3/1992

USER DATA:

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LOGHT 1 DWSHT

1 IVAI (2 4: 24000.1 10- 1

-11	HE C	00E	ENGL18N	COMMENTS	CUMULATIVE	WIT
	2 23			*******		********
	1 00		CR BURFACE		30,000	36.000
	2 54				60.000	39,000
	3 351		HASS BOY SII		67.000	7.000
	4 02		BANDED COAL		65.563	1.583
	4.1	. NED: JAN Z			OC+ 203	1.563
	5 324		MASS SDY SH		79.416	VII. 4574
	6 544				120.249	10.833
	7 124	and the same of			121,416	40,833
	E 323		SM W/SS STES		142.416	1.167
	9 124		SW		- A 27 4	21,000
1	0 051		BANDED COAL		157_749	15,333
		. SEDITIL SI	71L 20		158.166	-417
.7	1 124	PRK BRY			100 E 100	000
,	2 821	COMMON I	MANDED COAL		180.166	2.000
		* MED 2711 50			160.533	.667
1	3 124	ORK GRY			244 444	37.00
1	4 123		SH W/BS STRE		162.533	2.000
19	5 SA3	SAY SS A	USH STES		166.766	3.335
10	5 323		8H W/12 STES		171.565	5.500
17	1 124	DRK BAY			260.565	69.000
18		anne	***		247.666	7-000
	36.4	* BED: 498 10			247.749	_DA3
19	150		ANDED COAL		10000	
20		COAL W/B			266,082	.333
	200	MEDIUSE 10	SHE BIRE		249.249	.167
21		DRK GRY	-0			
22	100	GRY MASS			248.749	.500
23	1000		COAL SPARE		293.499	44.750
24		DRK GRY I			305.499	12,000
25					377.832	72.333
**	MEI	CLIPPING NO	WHEN COAL		378.832	1_000
36		ded; dyc 10			F-1000	200
26		GRY MASS			416,749	37.917
27		DRK GRY S			433.249	16.500
28	100		ASS SOT SH		680,249	47.000
56	400	CONTROL BA	AIDED COAL		400,832	.583
- 24	200	BED: HORS 20	MBB 20			.565
	124	DEE ORY S			485.249	2 447
	324		ASS MOY BH		494.832	4.417
	124	DRK GRY &			499.499	9,583
33	130	CCHACK BY	NDED COAL		499.749	4.667
	0.00	BED: LSB 10			WASTERNA	-250
	324	DRK GRY N	ASS SOY SH		200 /44	Car 2 25
35	544	DAY MASS	tir e		509-416	9,667
	323	DRE GRY SE	W/SF S7KS		605 166	95.750
37	124	DRE GRY SI			516-166	11.000
38	021	COMMON BAS	DEO CGAL		618.666	2.500
		BED:UNP 10 L			519,249	-563
39	544	SEY NASS S			Marine St.	
40	124	DAK MAY BH			452.249	33.000
41	021	COMPON BAN			652.582	.333
1-7	The second second	UED: UND SO	most mark		652.915	.333

LOG=[] [VMSNT] [VAJ [Z 1: 24000.] [D=

LIME	cone	EMELLEN	COMMENYA	GUNULATIVE	UNIT

45	-	COML WISOME STKS		653.498	
43	021	COMPAGN RANDED COAL		634_165	,563 ,667
911		BED TOND 20		10347 103	,DOF
44	124	DAK SAY SH		656.165	2 000
45	326	DAK GRY MARS SDY MA		669.665	2,000
46	544	gry mage se		696.165	13.500
47	124	DRE GRY NH		697.748	24.500
48	021	COMMON BANDED COAL		698, 498	1.583
		BED:AMP TO MHP 10		cad. 4AG	-750
49	124	PRK GRY SN		701.665	
50	324	ORK GRY HASS SOV SA		710.665	3.167
51	544	GRY MASS 88		1000	9,000
52	324	DAK ERY MASS SOY SH		721.832	11.167
	124	DAX GRY SN		725.352 768.915	1.500
	324	DRE DRY MASS SOV SII			45.583
	124	DRK SAT SH		769.915	1.000
36	021	COMMON MANDED COAL		750.619	10,500
		ED:LAC 10		742.666	2-250
	126	DISC GRY SIL		762 774	
58	021	COMICH BANDED COAL		783.532	-667
39	124	DRK GRY SH		784_082	.750
50	021	COPHON BANDED COAL		784.415	(333
61	023	COAL W/BONE STAS		785.082	-667
	W 80	SO HARC 10		785.249	. 167
62	124	DRK GRY SK		444 444	-502
63 3	324	NET DERY HASS SOY SH		785,665	-417
54	124	DRE GRY SN		796.666	11.990
65 0	121	CONMON SAMPED COAL		797.416	-750
	" 3	DIVEC 20 URC 20		798.146	-750
66 3	124	DRK BRY HASS SOY SH			2/400
67 3	143	CAT SS W/SH STKE		799,749	1.983
49 1	24	DRK GRY SN		027.749	25,000
69 0	121	COMMON SANDED COAL		528,999	1-250
		DELNA 10		320.499	.500
70 0	23	CHAL W/BONE BIKS		See Las	2.00
		D:LNP 10		829.666	.167
71 1	24	DRIK GRY SH		***	8.420
72 3	24	DUK GRY HASS SOY 2H		#30.833	1.167
73 1	24	DRIK GRY SH		433.233	3_000
74 1	26	ork bry sh		643.633	10,000
75 02	28	COAL WAN STES		845,666	1.833
< 1	A 85	11AP 20		845.916	.250
75 02	21 1	CONNECT SAMED COAL		017	2000
		05 BH1:		847.583	1-667
77 12	6 I	IRK GRY SH		222.222	12 (22)
78 32		RE GRY MASS SOY SH		849.916	2.333
79 55		TLIZED 35 W/SH STES		852-166	2.250
80 12		RK GRY SA		699.583	47.417
31 02		DAL WINDHE STES		P13.250	13.667
	* 850	:ACP 10		915.500	-250

LOS- 1 [WASHT 7 [WAI [2 1: 26000-1 10+ 1

LINE t	DOE EMGLT:	aricheloci	SALIVE	UNIT
		********************	*********	*********
82 GZ	COMMON BANDED COAL			
23 02	The second second second		915.833	2,333
84 12	The second second		916.333	.500
25 02			916,750	-417
41 42	* BED:PC9 10		917.167	-617
86 123	The state of the s		2/3/22/20	2917
87 124	The second second		917,500	, 533
86 543			920.500	3.000
	GRY SS H/SH STES		937.667	17,167
10.00	DAK GRY SH		954,667	17_000
90 123	DRK BRY SW W/COAL STRE		955.250	.583
91 021	COMMON BANDED COAL		996,000	.750
100	* BED: PC9 20 PC9 20		200,000	-170
92 323	DRIC GRY SH H/SS STKS		948.833	***
95 126	DOK ORT SH		775.023	12.533
94 021	COSSION BANDED COAL		975,250	6.250
La Mon	* 850:PCS 10		113,230	,167
95 123	DER DRY SH W/COAL STKE		N-200	44.7
96 023	COAL W/SOME STKS		975.583	.333
	· BED:PCS 10		977.333	1.750
97. 123	DHE GRY SH W/COAL STES		المور تنسن	5.45
95 124	DRK GRY SN		978.416	1-063
99 124	DRK GRY SH		981.249	2-833
100 554	KTLIZED HASS SE		1008,062	26.533
101 126	DRK BRY SH		1011,042	3,000
102 124	DRK CRY SH		1016.082	5.000
103 023	COAL WIBONE STKS		1017.062	1_000
	BED:PC7 10 PC7 10		1017.249	147
104 126	DRK GRY SN		5 A A 16 VI	
105 554	XTLIZED MASS SS		1018_916	1.667
			7020.335	1-417
106 324	PIKE CEN MUZE SON SH			-
107 555	MILIZED SE WASH STREE		1028.083	7.750
1CB 554	XTLIZED MASS SS	and the second	1042_083	14.000
109 754	XTLIZED OTZ PER ESL	AY2 PERS	1432.58S	90,500
710 021	CONSION BANGED COAL		1137.250	4-667
111 554	STLIZED MASS IS		1137.750	-500
112 754	XTLIZED OTZ PER COL		1130.250	1.500
113 556	NTLIZED NAST 38		1141.250	2.000
114 754	XTLIZED GTZ PEE CEL		1175.250	32_000
	REDUCED OF PER CIE.		1183.583	10,333
115 021			0732320	10,1044
	COMMON BANDED COAL		1183.666	.083
116 126	BED:PC5 10 PCS 10		0.0-0.00	.505
	DENC GRY SN		1184.749	1-003
117 033	DONE MITODAL STES		1184,832	.083
A COLUMN TO A COLU	BEOLPGS 20		13471966	1003
118 021	COPPEN BANDED COAL		1189,499	2 22-
	MED:PCS 20		1 ION THE	4.667
119 124	DEK GRY SN		(THE OF	
120 749	GRY SS U/COAL SPARS		1205,999	16.500
121 124	DAK GRY IN		1240,332	34.353
			1244.665	4.333

LOGHT 1 [VANT 3 (VA) (2 1: 24000.1 10=

LINE	100	ENGLISH	COMENTS C	BULATIVE	WIT
122	033	SOME W/COAL STAS		101	
27.0	2	BED:PC4 20		1245.165	-50
125		DRK GRY SH		7.0	
124		BONE W/COML STES		1245-248	.08
		SED:PC4 20		1245.231	.58
125	124	DRK GRY SH			
124	540	CRY 88		1251.581	5.750
127	324	DRK GRY MASS SOY EN	A CONTRACTOR OF THE PROPERTY O	1286.581	37.000
128	126	DHE GRY SH		1294.681	7.500
129	150	COMMON BANDED COAL		1303.416	7.333
8		850;PC3 10 PC3 10		1304,247	, 833
130	034	SCHE			
131	150	CONSIGN BANDED COAL		1304.414	/167
		MED:PCS 20 PC3 20		308.352	5.938
132	124	DRK SRY OH			
133	124	DRK GRY IN		307.081	-729
134	324	DRK GRY HASS BOY SH		311.081	2-000
35	124	DRE GRY SH		317,081	6.000
136	324	DRK SRY MASS SDY SH		323.414	6.333
137	124	DRK GRY SN		332,414	9.000
138	033	BONE NICOAL STEE		364-164	11.750
1.30		BED:PC2 10 PC2 10	- 3	344,267	.083
139	114	BLK SW		And the last	
60	027	COMMON BANDED COAL		144.914	.667
	- 1	E0:PC2 20	73	345.206	.292
41 1	033	SOME M/COAL STEE		(6) m	
		ED:PG2 20	73	45.873	.467
	124	DAN GRY SH	170.3	5.7.5	
	526	DAE MY HASP COY SH		47.706	1,633
44 3	560	GRY SE	25	56,623	8.917
			14	59.000	105,375

I OWNER HAME: ISLAND EREEK CORPORATION ALL DEPTHATRICIONESS DATA IN FEET

LOG- [] TWENT] TWAT [2 1: 24000.] [D= 77

INMITITION SECTION

- 1. QUAD MARE! VINENT
- 2. STATE LOCATION OF BUILD: NA
- 3. SCALE OF GLAD: 2
- 4. LOG 10 8: 72
- 5.1 UMPUBLISHED RECORD. COMPANY OF AGENCY HAVE: ISLAND CREEK CORP.
- & DEVISION OF TRACT:
- T. OR!LL HOLF KINGER: L-222
- B. CONTRIBUTING COMPANY ON AGENCY: INLAND CREEK DORP
- P. CONTRIBUTING COMPANY DOMES L-222

COCKO INATES OF NOLE OR SECTION

- 12.1 STATE CODE: VAS
- 12.2 STATE PLANE N/S: 3610736.21
- 12.3 STATE PLANE EAST 10442469. TH
- 15.1 DOMPANT SRID W4: 22427.00
- 15.2 COMPANY ORED E/W: 25491.00

CIVIL DISTRICT HIRRE LOCATED

- 17, STATE WHERE HOLE LOCATED: VA
- 18. COUNTY: BUCHAMAN
- 19. TOWNSHIP, MAGISTERIAL DISTAICT, OR INCORPORATED PLACE! BERKINS
- 20. ONCLUD LOCATION DESCRIPTION: VPS SMAFTC

BOMEROLE OR SECTION DESCRIPTION

- 21. ELEVATION AT TOP OF HOLE OR SECTION; F 1425.50 DRILL ANGLE D.
- 22. METHOD OF ELEVATION DETERMINATION: N
- 25. MANE OF PERSON LOGBING: CHUNCH
- 24. TEAR DAILLED OR HEARINED: 1974
- 25. TOTAL DEPTH OF CRILL HOLE; F 1468, 200
- 26. BED CODE REGION IDENTIFIER: MAPP
- 27. DODE OF UPPERMOST IDENTIFIABLE BET: NVW
- 28. CODE OF LOWERWOST IDENTIFICABLE GEO: PC3
- 29.1 KIND OF RECORDS C
- 29.2 HETWOO DE LITHO DESCRIPTION: 11000E.
- SO, I WHITE OF HEASUREMENT: 1(FIF !
- 30,2 NETHOD (S) OF MEASUREMENT: 1 THIN 1

PERSON(S) LAST HODISYING THIS LOG

- 31. PERSON MUBHITTING LOS FOR ENTEYT DOL
- 32. DATE OF LOG SUBMISSION (MA/DD/YYYY): 3/2/87
- LAST HODIFIED BY: DEL

DATE: 9/3/1992

UNER DATA:

2 DAMER MGR.: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

106+[] [WESHT 1 [VA] [2 1: 24000.] 15- 72

LINE	cone	EMELINA	COMMENTS	CLONALAT LIVE	UMIT
	******		***************************************	*********	*********
1	001	CASTUG OR SUBFACE		21,000	21,000
5	544	GPY MASS SE		23.000	2.000
3	544	GRY MASS SS		28,750	5.750
4	543	GRY SE W/SH STKS		42.500	13-750
5	124	DINK GRY SN		43.043	.583
6	021	COMPON BANDED COAL		43.5BS	-200
		BEO;RVW 20			20.0
7	124	DRK GRY SH		44-166	.583
	021	DOWNER MANDED COAL		44.233	-667
		BED:RVN 20			7.50
9	124	DRE QUY SH		45,916	1.083
10	5411	CAY SE		107_999	42.083
11	324	DRE GRY MASS SOY SH		118.416	10.417
12	543	ERT BE WISH STES		121.916	3,500
13	749	GRY SE W/COAL SPARS		125.333	3.417
74	323	BRK GRY SH W/SE STRS		134.G83	0.750
15	124	DRE DRY SH		152.083	78,000
16	323	DRE DRY SH W/SS STED		159.416	7,333
17	124	DRX BRY SH		166,333	6.917
18	023	COAL W/SOME STES		166,500	,167
		SED: JAM 10			
19	124	DRK SRY SH		166.017	.417
20	021	COMMON BANDED COAL		167.667	-750
		SED : JAN 10			
21	544	GRY MASS SS		215,167	47,500
22	324	DRE GRY MASS SET SH		221,500	6.333
25	124	DRE GRY SW		222.053	.583
24	021	COPPER MANDED COAL		273.750	1.567
		BED: IMM SO TAN 50			
3	123	DRIF DRY AN W/COAL STICE		224.083	.333
25	124	DAX GRY SH		224.250	,767
27	124	DRK BRY SM		224_500	.250
38	124	DAK CRY SH		227,083	2.583
29	324	DRK GRY MASS SOT SH		230.166	3.083
30	544	SE FRAN THE		280,333	50.167
31	323	DRE ERY SH M/SS STEE		292.553	12.000
32	543	GRY SS W/SW STAS		200, 102	5.557
33	323	DRK GRY SR W/SS STKS		315,583	14.583
34	124	DRK GRY SH		316.416	.333
35	021	COMMON SAMOND COAL		\$16.533	.417
		BED:TIL 20 FIL 20			
	124	DRIE GRY SW		318,633	2.000
37	021	COMMUNICATION COAL		319,166	*322
	- 1	9ED:TIL 30 TIL 30			
35	124	DAK CRY SH		320.583	7,417
30	543	DRY SS W/SH STICE		345,583	25.000
40	123	DRK DRY BU U/SS STKS		394,585	49.000
61	021	DISPLEM BANGED COMIL		384.750	.167
42	124	DRE BAY SN		398,500	3.750
43	021	COMMON BANDED COML		398.750	.250
		SED : USS 10 USS 10			

PAGE: 3 CHANEN MAME: ISLAND CREEK CORPORATION
ALL DEPTH/THICKNESS DATA IN FEET

LOGAL 1 [VALUE 1

1 TVAT 1 2 1: 24000.1 ID= 72

LIME	CORE	ENGLIEN	COMENTS	CHELATIVE	ANIT
****	*****		*******	*********	*********
10	194	the saw at		403 000	2.250
45	124	COAL MACHINE STER		401.000	. CAS
	124			402_583	
46		DEK BRY SH			1.500
47		Set as		423.064	21.083
48	421	COMMON BANDED COAL MEDICAR ZO USE ZO		423.749	,083
44	749	SEV ES W/COAL SPARS		428.332	4,583
49	100			11.7	47.667
50		ORY SS W/SH STAS		477.999	2. 10. 10. 10.
51	124	DRK GRT SH		357.499	79.500
52	921	COMPACH SANCED COAL		558,592	1.083
-		MED: OVC 10 SYC 10			42.44
33	C7.70	BRT SE W/SH STICE		577.082	18.500
72.5	749	CRY BE W/CORL SPARS		587.665	12.583
55		ONE SET SH		608.998	19.333
56	\$43	ORY SE WASH STEE		615.998	10-000
2.50	323	DAK GEA SH PLUE ZLES		645.248	26.250
58	051	COLECT DYNASS CONT		646.081	.833
6.		MED (PGB 20 RSB 20		1000000	Date.
59	124	DEK CON BM		648.051	5-000
50	563	DRY ES WISH STICE		457.664	9,543
61	124	DRE GRY SE		667.414	9.750
15	723	DRE GET SH W/COAL STEE		665,831	1.417
63	124	DEC GEY SH		669.914	1.083
54	021	CONTION BANDED COAL		670.331	.417
	15	880:LSB 10 LSB 10		100	
65	124	GRE MT SH		672.748	2,417
66	027	COAL HIMDE STEE		673.248	,300
		BED:LSE 20 LSE 20			
78	124	DRK GRY EN		675.748	2.500
66	324	DRK SRY WASS SOY EN		581.248	5.500
69	543	MY SE WEN STED		721.998	40.750
70	125	DRE GRY SH W/COAL STREE		723-248	1.250
71	124	DRK DRY SH		725,498	.250
72	543	GRY SE W/ON STES		754.498	31,000
73	323	DAK GRY SH N/BE STEE		763.496	9,000
74	124	DAK GET SH		775.081	11.585
	121	COMMON EARDED COST.		775.998	1.917
		neo:uno ta uno to			
76	123	DEE GRY SH W/COAL STATE		777-081	.083
100	749	CAY SE W/COML SPARS		792.081	15.000
	021	DOPOCH GARDEN COAL		794,081	2,000
		SED:UP 20 UNF 29		1,000	44.000
79	124	DAX GRY BH		795.414	1.333
50	324	DRK DEV HASS SOT SH		628.831	33.417
100	124	DAK ORY SA		828-P14	.063
	021	COMMON BANDED DOAL		630.664	1.750
-	-	BED:MAP 10 MMP 10		20.104	111.34
art.	724	DRE GRY SN		833.331	2.667
1.00	543	GRY RE WITH STAR		858.998	25-667
	323	DRIC GRY SH W/SS STKS		903.998	45.000
42	-	Ann was also also			-2 = 17174