

1TOil =36MBtu  
 1MTOil =36BBtu  
 1,000BAR =150Tonne  
 ERSurface =5.6MBSF

ERatmph =4.4MBTon

Rheat =A x E x T^4 x 0.173 x 10^-8

Polarice =5.6x10^15 x 200 x 60 /2,400/0.9 =31x10^15Ton

Polarice =5.6x10^15 x 200 x 60 x 500 /0.9 =156x10^18Btu

## POLAR EQUILIBRIUM TABLE 1

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ICEFACT= 0%

PERIOD	UNITS	1900	1920	1940	1960	1980	1990	2000	2010	2020	2040	2060	2080	2100
Multi-factor	xx	10	10	10	10	10	10	10	10	20	20	20	20	20

### A Carbon production;

1 Global Oil	B-BAR/y	0.00	0.80	2.00	20.00	20.00	25.00	30.00	25.00	20.00	18.00	9.00	2.50	2.00
2 Global Oil	BTOilEq	0.00	0.12	0.30	3.00	3.00	3.75	4.50	3.75	3.00	2.70	1.35	0.38	0.30
3 Global Coal	BTOilEq	0.40	0.60	0.80	1.30	1.80	2.20	2.20	2.50	<b>3.70</b>	<b>3.80</b>	<b>3.70</b>	<b>2.25</b>	<b>1.75</b>
4 Global Gas	BTOilEq	0.00	0.10	0.20	0.40	1.20	1.70	2.20	2.50	<b>3.10</b>	<b>3.50</b>	<b>3.80</b>	<b>3.90</b>	<b>4.00</b>
5 CARBGross	BTOilEq	0.40	0.82	1.30	4.70	6.00	7.65	8.90	8.75	9.80	10.00	8.85	6.53	6.05
6 CARBHeat	MBBtu/y	14	30	47	169	216	275	320	315	353	360	319	235	218
7 CARBCO2	BTon/y	1.5	3.1	5.0	17.9	22.9	29.2	33.9	33.4	37.4	38.1	33.8	24.9	23.1

### B Particulate balance;

1 CARBPart	ppm	0.34	0.70	1.11	4.00	5.10	6.50	7.57	7.44	8.33	8.50	7.52	5.55	5.14
2 AMZCO2-	ppm	2.00	1.95	1.90	1.85	1.80	1.75	1.70	1.65	1.60	1.55	1.50	1.45	1.40
3 RESCO2-	ppm	2.00	1.90	1.80	1.70	1.60	1.50	1.40	1.30	1.20	1.10	1.00	0.90	0.80
4 GBLCO2-	ppm	4.00	3.85	3.70	3.55	3.40	3.25	3.10	2.95	2.80	2.65	2.50	2.35	2.20
5 REFCO2	ppm	200	168	143	147	164	196	241	286	397	514	614	678	737

### C Radiation heat balance;

1 ERTRad-E	NIL	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 SOLRad-E	NIL	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
3 Etemp-m	Renkin	500	500	500	500	500	500	500	500	500	500	500	500	500
4 ERadLoss	Btu/SF	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25	43.25
5 ERadLoss	MBBtu/h	242	242	242	242	242	242	242	242	242	242	242	242	242
6 SolRadIN	Btu/SF	240	240	240	240	240	240	240	240	240	240	240	240	240
7 SolRadIN	MBBtu/h	336	336	336	336	336	336	336	336	336	336	336	336	336
8 GainRad	MBBtu/h	94	94	94	94	94	94	94	94	94	94	94	94	94
9 ICEFACT%	0	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### D Total heat balance;

1 GainRad	MBBtu/h	94	94	94	94	94	94	94	94	94	94	94	94	94
2 CARBHeat	MBBtu/y	14	30	47	169	216	275	320	315	353	360	319	235	218
3 CARBStore	MBBtu/y	169	163	157	150	144	138	131	125	119	112	106	100	93
4 NETHEAT	MBBtu/y	-61	-40	-16	113	166	232	283	284	328	342	307	229	218
5 DIFFTemp	Renkin	-0.02	-0.02	-0.01	0.043	0.063	0.088	0.107	0.108	0.124	0.129	0.116	0.087	0.083
6 NEWTemp	Renkin	500.0	499.8	499.8	500.2	500.8	501.7	502.8	503.9	506.4	508.9	511.3	513.0	514.7
7 NEWTemp	Farenheit	72.0	71.8	71.8	72.2	72.8	73.7	74.8	75.9	78.4	80.9	83.3	85.0	86.7
8 NEWTemp	Kelvin	296.7	296.6	296.6	296.9	297.2	297.8	298.4	299.0	300.5	302.0	303.4	304.5	305.4
9 NEWTemp	Celcius	23.74	23.65	23.61	23.87	24.24	24.76	25.4	26.03	27.51	29.04	30.42	31.45	32.44

Etemp-m	Renkin	500	500	500	500	500	500	500	500	500	500	500	500	500
REFCO2	ppm	200	168	143	147	164	196	241	286	397	514	614	678	737
NEWTemp	Renkin	500.0	499.8	499.8	500.2	500.8	501.7	502.8	503.9	506.4	508.9	511.3	513.0	514.7
NEWTemp	Faranheit	72.0	71.8	71.8	72.2	72.8	73.7	74.8	75.9	78.4	80.9	83.3	85.0	86.7

