00811

K-Ar

Sample Number(s) and Reference(s)

Lab No: 27143

Ref:

Record No:

Suite No:

Sample Name: HHD 80-01 - 202m

decay constants:	material	Date	1σ error
☐ 4.72/.584/1.19	( )		± Ma
☐ 4.72/.584/1.18	( )		± Ma
☐ 4.96/.581/1.167	( )		± Ma

☐ not reported

Latitude: ° ' " N, Longitude: ° ' " W (X° Y' Z" or X° Y.Y')

(±);

UTM Zone ____ E ____ N; Province ____

Sec. ____, T. ____, R. ____; ____ Co., State ____.

(NTS ____) ____ Map Area, Scale ____

Location: Hudson Hope Denson drill hole, northeast Coalfield

Source Type: ~~Drill core~~ Drill core

Rock: Glauconitic sandstone, ~~Gates Formation~~

Geologic Unit: Gates Formation

Geologic Age: Cretaceous

Material Analyzed: Glauconite (final submission hand picked)

Analytical Data: (list duplicate analyses or indicate n = 2, n = 3, etc.)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*} = $x10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $x10^{-10}$ mol/gm)

K = %; (Ar^{40*}= $x10^{-6}$ cc/gm); (%ΣAr^{40})
K_2O= % $x10^{-10}$ mol/gm)

Comment on Analyses:

Interpretation:

Collected by: D Leckie

Dated by:

Listed by: W.J. McMillan (name, institution) Date: Jan 6/84

811

The Coordinates for the 2 Holes

P.D.-80-01

Lat 56°04'48, Long 121°02'13

H.H.D.-80-01

Lat. 56°07'19 Long 121°44'03.

811

Hudson H. D 80-01 - Denison - Rush

BS
Kitning } Contact at 315.4 m depth from collar

		depth from collar
0.5 m	coal	357
0.25 + 0.50 m	coal	380
0.75 m	coal	390
0.50 m	coal	393
0.75 m	all one coal seam with partings probably	461 meters
0.85 m		463
0.20 m		
0.30 m		max depth of coal seam 466
0.10 m		
2.20 M		

following logs.

Gamma Ray - Neutron
Sidewall Densilog - Caliper
Focused Beam Log.

811

ROKE

OIL EXPLORERS LTD. CALGARY, ALBERTA

GATES FORMATION

MOOSEBAR

GETHING

CADOMIN

811

COAL QUALITY LOG

BPB

BOREHOLE
CLIENT
AREA
COUNTRY
DATE LOGGED
RIG
DATE/TIME

BOREHOLE DATA
OPERATION DATA
EQUIPMENT AND RECORDING DATA

SONDE TYPE
COAL CORRELATION SONDE
LOG SUITE
COAL BULK DENSITY
L.S. DENSITY

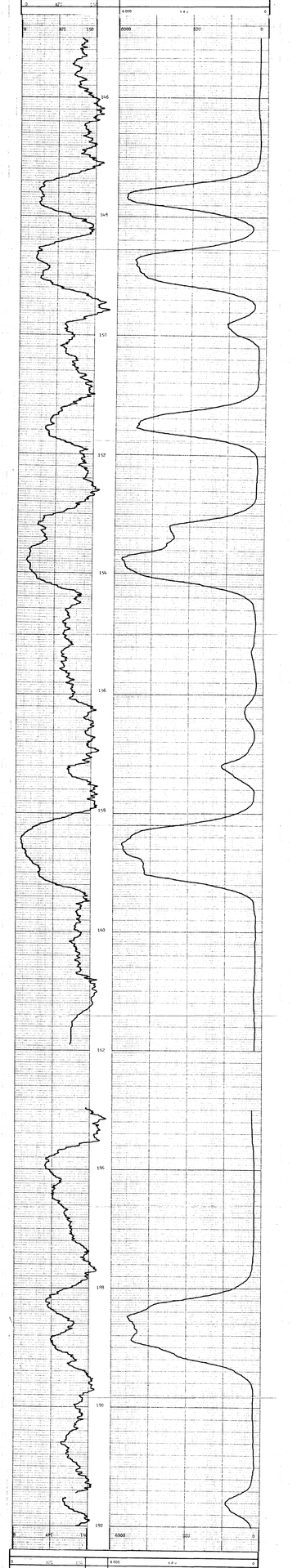
COAL CORRELATION SONDE
GENERAL POSITION
COAL BULK DENSITY
GAMMA RAY
COAL QUALITY LOG INTERVALS
REMARKS

BPB COAL QUALITY LOG

DEPTH

COAL BULK DENSITY

HOLE SIZE CORRECTION DATA



GAMMA RAY

COAL BULK DENSITY

DEPTH

GAMMA RAY

BPB

BOREHOLE
CLIENT
AREA
COUNTRY

COAL QUALITY LOG

GAMMA RAY & NEUTRON-NEUTRON LOGS

BOREHOLE 02-52-2
CLIENT CNRL

AREA FALLING, PEACE
COUNTRY CANADA
DATE LOGGED 11/04/92

RUN NO. ONE
LOGGING UNIT 3

1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
0	0	0	0	0	0	0	0

REMARKS

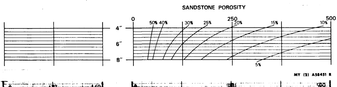
EQUIPMENT AND RECORDING DATA

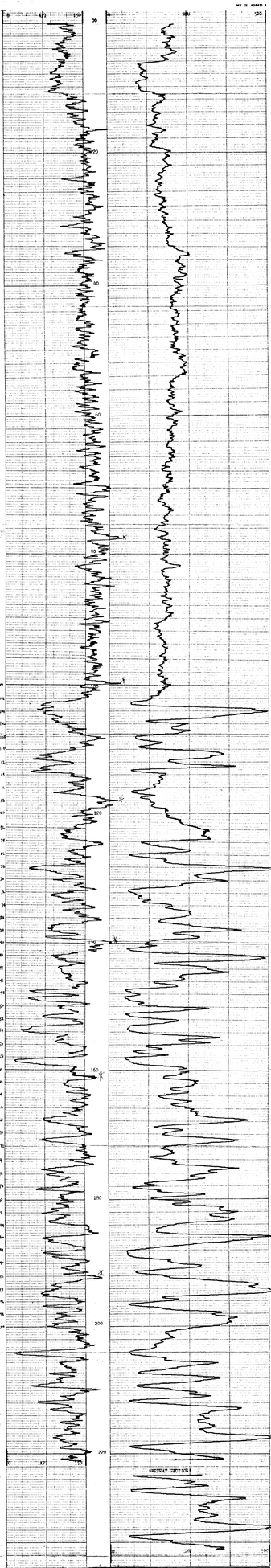
100	SPANNING	PRINT	100
LIMIT	100	100	LIMIT
100	100	100	100

BOREHOLE DATA MEASURED LITHOLOGY 100

OPERATION DATA - 100

SANDSTONE POROSITY




GAMMA RAY
0
API
150
NEUTRON-NEUTRON
100
50
0
100
50
0
100
50
0

COAL LITHOLOGY LOG

SONDE TYPE: COAL COMBINATION SONDE

LOG SUITE: GAMMA RAY DENSITY CALIPER

BOREHOLE: _____
CLIENT: _____
AREA: _____
COUNTRY: _____
DATE LOGGED: _____
RUN NO: _____
DATE RUN: _____

BOREHOLE DATA: DEPTH DRILLER _____ / DEPTH LOGGER _____ / BOTTOM LOGGED INTERVAL _____ / CASING DRILLER _____ / CASING LOGGER _____ / BIT SIZE _____ / TYPE FLUID IN HOLE _____ / DENSITY _____ / PH _____ / FLUID LEVEL _____ / MAX. REC. TEMP. _____ / ESTIMATED BHT _____ / SOURCE OF SAMPLE _____ / RM @ MEASURED TEMP. _____ / RMF @ MEASURED TEMP. _____ / RMC @ MEASURED TEMP. _____ / SOURCE RMF _____ / SOURCE RMC _____ / RM @ BHT _____ / TIME SINCE CIRCULATION _____ / TIME SINCE PUMPS STOPPED _____ / TIME LOGGER ON BOTTOM _____

FLUID DATA: KCl 3 - 5 KPT - LIG

OPERATION DATA: UNIT NO. _____ / OPERATOR _____ / RIG NO. _____ / LOGGING ENGINEER _____ / WITNESS _____ / DATE _____ / TIME _____

EQUIPMENT AND RECORDING DATA

COAL COMBINATION SONDE

LOG		EQUIPMENT			TAPING			PANEL			DEPTHS			SEAM LOG RUN
	SONDE	SOURCE	CALIBRATOR	LOG CURVE	RECORD METHOD	DIRECT PLAY	OFFSET	LOG SCALE	CURVE	NORM	FROM	TO	BASE	
GAMMA RAY	1	1		1	3	0	2	1	1	2	1	2	1	2
DENSITY				1	3	0	2	1	2	2	1	2	1	2
CALIPER	1	1		1	3	0	2	1	3	2	1	2	1	2

COAL DUALITY SEAM THICKNESS LOG INTERVALS (Refer to relevant log)

FROM	192	142	INTERVAL TOTAL
TO	142	141	
INTERVAL	1		

ADDITIONAL SONDES RUN

SONDE	LOG	GENERAL SCALE	DETAIL SCALE
12	N.R.		

REMARKS

REFER TO ADDITIONAL HEADINGS

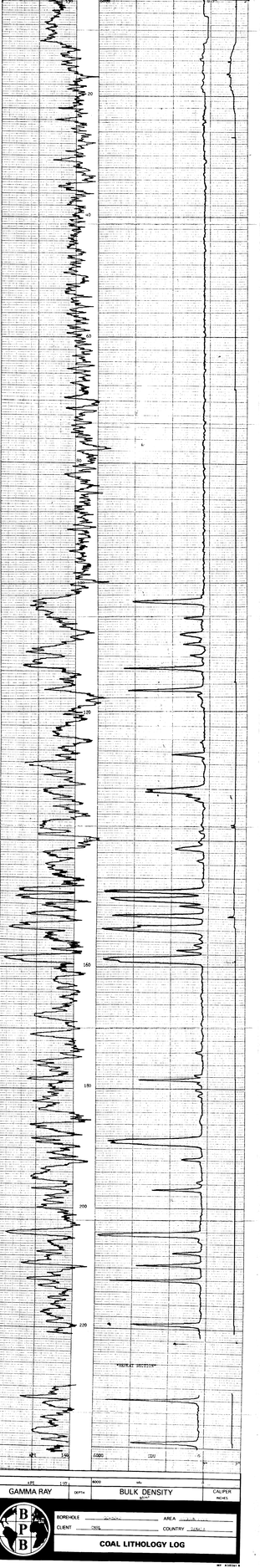
BPB COAL LITHOLOGY LOG

CALIBRATION DATA

JIG No	VALUE	@ 2 DAAM	JIG CAL DATE	JIG VALUE	SDN/@	MHT	PN
JIG NAME SHOWN AT ABOVE VALUE -			JIG No	SPAN	NORM	RN	PN

GAMMA RAY — DEPTH — BULK DENSITY (G/CC) — CALIPER INCHES

HOLE SIZE CORRECTION DATA

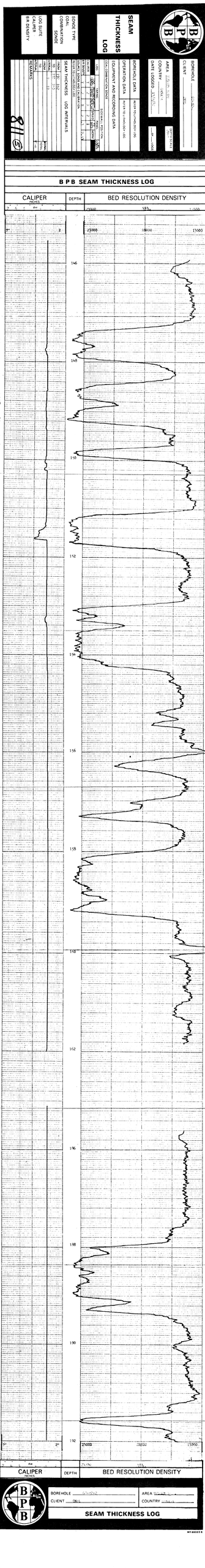


LIT 1:20 — MODE — GAMMA RAY — DEPTH — BULK DENSITY (G/CC) — CALIPER INCHES

BOREHOLE: _____ AREA: _____
CLIENT: _____ COUNTRY: _____

COAL LITHOLOGY LOG

BPB



B P B SEAM THICKNESS LOG

CALIPER INCHES | DEPTH | BED RESOLUTION DENSITY

BOREHOLE | AREA | CLIENT | COUNTRY

SEAM THICKNESS LOG

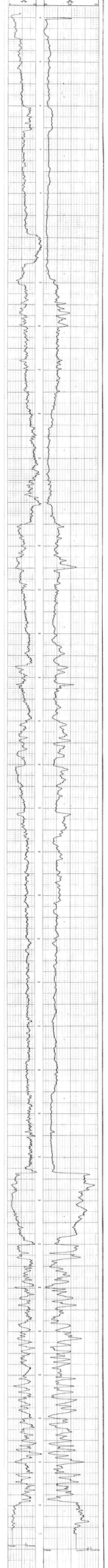
ROKE

COMPANY	ROKE OIL & GAS PTY. LTD.
WELL	CORRIGIN 1
FIELD	CORRIGIN
COUNTY	
STATE	WESTERN AUSTRALIA
LOCATION	
OTHER SERVICES	
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	KELLY BUSHING
DRILLING MEASURED FROM	KELLY BUSHING
DATE	23-MAY-1984
RUN NO.	ONE
TYPE FLUID IN HOLE	WATER
DENSITY	1.0
VISCOSITY	35
PH	8.5
FLUID LOSS	8
SOURCE OF SAMPLE	PIT
RM @ MEASURED TEMP.	0.25 @ 25
RMF @ MEASURED TEMP.	0.25 @ 25
RMC @ MEASURED TEMP.	0.25 @ 25
SOURCE RMF & RMC	MEASURED
RM @ BHT	0.12 @ 77
TIME CIRC. STOPPED	0700
TIME LOGGER ON BOTTOM	0900
MAX. REC. TEMP.	77 DEGREES
EQUIPMENT NO.	1
LOCATION	1
RECORDED BY	R. ROBINSON
WITNESSED BY	MR. BOYLE

BIT SIZE	TYPE	SERIAL NO.	FROM	TO	FOOTAGE	HOURS	ROP
8.5	HTC		0	1000	1000	24	41.6

CASING SIZE	WEIGHT	GRADE	FROM	TO	BIT SIZE	TYPE FLUID	DENSITY	VISCOSITY	PH	FLUID LOSS
9.625	36	K55	0	1000	8.5	WATER	1.0	35	8.5	8

LOGGING UNIT	1
LOGGING ENGINEER	
OPERATOR	
TRUCK NO.	
REMARKS	



ROKE BOREHOLE SERVICES

OIL SERVICES LTD. CALGARY, ALBERTA

COMPANY: CHEVRON CANADA LIMITED

WELL: A.A.R. 8-2

LOCATION:

FIELD: BEAVER RIVER

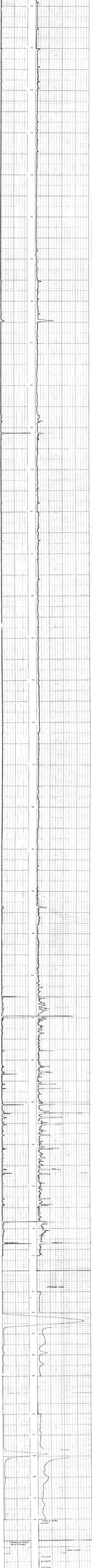
COUNTY: PROVINCE:

Date Run No.			
Log Measured From			
Log Measured From			
Log Measured From

ROKE

Name	Jim Ho
Address	1 Wellington Street
	Toronto, Ontario
	M5E 1C8
Phone	416-362-2111
Fax	416-362-7711
Email	jho@roke.com
Date	2001-Jan-12
Time	14:00
Location	Toronto, Ontario
Comments	Jim Ho, Roke, 1 Wellington St, Toronto, Ontario, M5E 1C8, 416-362-2111, 416-362-7711, jho@roke.com

Model	Roke Seismograph	Serial # 1
Sensitivity	1	Sensitivity
Low Cut/Gain		Low Cut/Gain
Hz	100	Hz
Gain	1000	Gain
Hz	1000	Hz



ROKE

ROCKY RIVER DRILLING LTD.

CHARTERS, ALBERTA

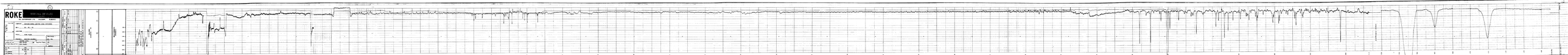
WELL NO.	1
LOCATION	1-2-3-4
	5-6-7-8
	9-10-11-12
	13-14-15-16
	17-18-19-20
	21-22-23-24
	25-26-27-28
	29-30-31-32
	33-34-35-36
	37-38-39-40

ROKE

COMPANY	
WELL	
FIELD	
COUNTY	
STATE	
LOCATION	
API NUMBER	
SERIAL NUMBER	
DATE	
RUN NUMBER	
DEPTH DRILLER	
DEPTH LOGGER	
BOTTOM LOGGED INTERVAL	
TOP LOGGED INTERVAL	
CASING DRILLER SIZE AT DEPTH	
CASING LOGGER SIZE AT DEPTH	
BIT SIZE	
TYPE FLUID IN HOLE	
DENSITY / VISCOSITY	
PH / FLUID LOSS	
SOURCE OF SAMPLE	
RM AT MEASURED TEMP	
RMF AT MEASURED TEMP	
RMC AT MEASURED TEMP	
SOURCE RMF / RMC	
RM AT BHT	
MAX REC. TEMP.	
EQUIPMENT NUMBER	
LOCATION	
RECORDED BY	
WITNESSED BY	

BIT NO.	SIZE	MANUF.	TYPE	JETS	DEPTH IN	DEPTH OUT	FOOTAGE	HRS.	AVG. ROP

MATRIX		DENSITY	


ROKE
MODEL 24 D.S.
DATE
TIME
SPEED
PAPER
PRESSURE
TEMPERATURE
CHART
PRESSURE
TEMPERATURE
CHART
PRESSURE
TEMPERATURE
CHART

No.	Date	Time	Depth	Description
1	8-1-78	1:00	1,000	Begin Log
2	8-1-78	1:30	1,500	Log Stop
3	8-1-78	2:00	1,500	Begin Log
4	8-1-78	2:30	2,000	Log Stop
5	8-1-78	3:00	2,000	Begin Log
6	8-1-78	3:30	2,500	Log Stop
7	8-1-78	4:00	2,500	Begin Log
8	8-1-78	4:30	3,000	Log Stop
9	8-1-78	5:00	3,000	Begin Log
10	8-1-78	5:30	3,500	Log Stop
11	8-1-78	6:00	3,500	Begin Log
12	8-1-78	6:30	4,000	Log Stop
13	8-1-78	7:00	4,000	Begin Log
14	8-1-78	7:30	4,500	Log Stop
15	8-1-78	8:00	4,500	Begin Log
16	8-1-78	8:30	5,000	Log Stop
17	8-1-78	9:00	5,000	Begin Log
18	8-1-78	9:30	5,500	Log Stop
19	8-1-78	10:00	5,500	Begin Log
20	8-1-78	10:30	6,000	Log Stop
21	8-1-78	11:00	6,000	Begin Log
22	8-1-78	11:30	6,500	Log Stop
23	8-1-78	12:00	6,500	Begin Log
24	8-1-78	12:30	7,000	Log Stop
25	8-1-78	1:00	7,000	Begin Log
26	8-1-78	1:30	7,500	Log Stop
27	8-1-78	2:00	7,500	Begin Log
28	8-1-78	2:30	8,000	Log Stop
29	8-1-78	3:00	8,000	Begin Log
30	8-1-78	3:30	8,500	Log Stop
31	8-1-78	4:00	8,500	Begin Log
32	8-1-78	4:30	9,000	Log Stop
33	8-1-78	5:00	9,000	Begin Log
34	8-1-78	5:30	9,500	Log Stop
35	8-1-78	6:00	9,500	Begin Log
36	8-1-78	6:30	10,000	Log Stop
37	8-1-78	7:00	10,000	Begin Log
38	8-1-78	7:30	10,500	Log Stop
39	8-1-78	8:00	10,500	Begin Log
40	8-1-78	8:30	11,000	Log Stop
41	8-1-78	9:00	11,000	Begin Log
42	8-1-78	9:30	11,500	Log Stop
43	8-1-78	10:00	11,500	Begin Log
44	8-1-78	10:30	12,000	Log Stop
45	8-1-78	11:00	12,000	Begin Log
46	8-1-78	11:30	12,500	Log Stop
47	8-1-78	12:00	12,500	Begin Log
48	8-1-78	12:30	13,000	Log Stop
49	8-1-78	1:00	13,000	Begin Log
50	8-1-78	1:30	13,500	Log Stop
51	8-1-78	2:00	13,500	Begin Log
52	8-1-78	2:30	14,000	Log Stop
53	8-1-78	3:00	14,000	Begin Log
54	8-1-78	3:30	14,500	Log Stop
55	8-1-78	4:00	14,500	Begin Log
56	8-1-78	4:30	15,000	Log Stop
57	8-1-78	5:00	15,000	Begin Log
58	8-1-78	5:30	15,500	Log Stop
59	8-1-78	6:00	15,500	Begin Log
60	8-1-78	6:30	16,000	Log Stop
61	8-1-78	7:00	16,000	Begin Log
62	8-1-78	7:30	16,500	Log Stop
63	8-1-78	8:00	16,500	Begin Log
64	8-1-78	8:30	17,000	Log Stop
65	8-1-78	9:00	17,000	Begin Log
66	8-1-78	9:30	17,500	Log Stop
67	8-1-78	10:00	17,500	Begin Log
68	8-1-78	10:30	18,000	Log Stop
69	8-1-78	11:00	18,000	Begin Log
70	8-1-78	11:30	18,500	Log Stop
71	8-1-78	12:00	18,500	Begin Log
72	8-1-78	12:30	19,000	Log Stop
73	8-1-78	1:00	19,000	Begin Log
74	8-1-78	1:30	19,500	Log Stop
75	8-1-78	2:00	19,500	Begin Log
76	8-1-78	2:30	20,000	Log Stop
77	8-1-78	3:00	20,000	Begin Log
78	8-1-78	3:30	20,500	Log Stop
79	8-1-78	4:00	20,500	Begin Log
80	8-1-78	4:30	21,000	Log Stop
81	8-1-78	5:00	21,000	Begin Log
82	8-1-78	5:30	21,500	Log Stop
83	8-1-78	6:00	21,500	Begin Log
84	8-1-78	6:30	22,000	Log Stop
85	8-1-78	7:00	22,000	Begin Log
86	8-1-78	7:30	22,500	Log Stop
87	8-1-78	8:00	22,500	Begin Log
88	8-1-78	8:30	23,000	Log Stop
89	8-1-78	9:00	23,000	Begin Log
90	8-1-78	9:30	23,500	Log Stop
91	8-1-78	10:00	23,500	Begin Log
92	8-1-78	10:30	24,000	Log Stop
93	8-1-78	11:00	24,000	Begin Log
94	8-1-78	11:30	24,500	Log Stop
95	8-1-78	12:00	24,500	Begin Log
96	8-1-78	12:30	25,000	Log Stop
97	8-1-78	1:00	25,000	Begin Log
98	8-1-78	1:30	25,500	Log Stop
99	8-1-78	2:00	25,500	Begin Log
100	8-1-78	2:30	26,000	Log Stop
101	8-1-78	3:00	26,000	Begin Log
102	8-1-78	3:30	26,500	Log Stop
103	8-1-78	4:00	26,500	Begin Log
104	8-1-78	4:30	27,000	Log Stop
105	8-1-78	5:00	27,000	Begin Log
106	8-1-78	5:30	27,500	Log Stop
107	8-1-78	6:00	27,500	Begin Log
108	8-1-78	6:30	28,000	Log Stop
109	8-1-78	7:00	28,000	Begin Log
110	8-1-78	7:30	28,500	Log Stop
111	8-1-78	8:00	28,500	Begin Log
112	8-1-78	8:30	29,000	Log Stop
113	8-1-78	9:00	29,000	Begin Log
114	8-1-78	9:30	29,500	Log Stop
115	8-1-78	10:00	29,500	Begin Log
116	8-1-78	10:30	30,000	Log Stop
117	8-1-78	11:00	30,000	Begin Log
118	8-1-78	11:30	30,500	Log Stop
119	8-1-78	12:00	30,500	Begin Log
120	8-1-78	12:30	31,000	Log Stop
121	8-1-78	1:00	31,000	Begin Log
122	8-1-78	1:30	31,500	Log Stop
123	8-1-78	2:00	31,500	Begin Log
124	8-1-78	2:30	32,000	Log Stop
125	8-1-78	3:00	32,000	Begin Log
126	8-1-78	3:30	32,500	Log Stop
127	8-1-78	4:00	32,500	Begin Log
128	8-1-78	4:30	33,000	Log Stop
129	8-1-78	5:00	33,000	Begin Log
130	8-1-78	5:30	33,500	Log Stop
131	8-1-78	6:00	33,500	Begin Log
132	8-1-78	6:30	34,000	Log Stop
133	8-1-78	7:00	34,000	Begin Log
134	8-1-78	7:30	34,500	Log Stop
135	8-1-78	8:00	34,500	Begin Log
136	8-1-78	8:30	35,000	Log Stop
137	8-1-78	9:00	35,000	Begin Log
138	8-1-78	9:30	35,500	Log Stop
139	8-1-78	10:00	35,500	Begin Log
140	8-1-78	10:30	36,000	Log Stop
141	8-1-78	11:00	36,000	Begin Log
142	8-1-78	11:30	36,500	Log Stop
143	8-1-78	12:00	36,500	Begin Log
144	8-1-78	12:30	37,000	Log Stop
145	8-1-78	1:00	37,000	Begin Log
146	8-1-78	1:30	37,500	Log Stop
147	8-1-78	2:00	37,500	Begin Log
148	8-1-78	2:30	38,000	Log Stop
149	8-1-78	3:00	38,000	Begin Log
150	8-1-78	3:30	38,500	Log Stop
151	8-1-78	4:00	38,500	Begin Log
152	8-1-78	4:30	39,000	Log Stop
153	8-1-78	5:00	39,000	Begin Log
154	8-1-78	5:30	39,500	Log Stop
155	8-1-78	6:00	39,500	Begin Log
156	8-1-78	6:30	40,000	Log Stop
157	8-1-78	7:00	40,000	Begin Log
158	8-1-78	7:30	40,500	Log Stop
159	8-1-78	8:00	40,500	Begin Log
160	8-1-78	8:30	41,000	Log Stop
161	8-1-78	9:00	41,000	Begin Log
162	8-1-78	9:30	41,500	Log Stop
163	8-1-78	10:00	41,500	Begin Log
164	8-1-78	10:30	42,000	Log Stop
165	8-1-78	11:00	42,000	Begin Log
166	8-1-78	11:30	42,500	Log Stop
167	8-1-78	12:00	42,500	Begin Log
168	8-1-78	12:30	43,000	Log Stop
169	8-1-78	1:00	43,000	Begin Log
170	8-1-78	1:30	43,500	Log Stop
171	8-1-78	2:00	43,500	Begin Log
172	8-1-78	2:30	44,000	Log Stop
173	8-1-78	3:00	44,000	Begin Log
174	8-1-78	3:30	44,500	Log Stop
175	8-1-78	4:00	44,500	Begin Log
176	8-1-78	4:30	45,000	Log Stop
177	8-1-78	5:00	45,000	Begin Log
178	8-1-78	5:30	45,500	Log Stop
179	8-1-78	6:00	45,500	Begin Log
180	8-1-78	6:30	46,000	Log Stop
181	8-1-78	7:00	46,000	Begin Log
182	8-1-78	7:30	46,500	Log Stop
183	8-1-78	8:00	46,500	Begin Log
184	8-1-78	8:30	47,000	Log Stop
185	8-1-78	9:00	47,000	Begin Log
186	8-1-78	9:30	47,500	Log Stop
187	8-1-78	10:00	47,500	Begin Log
188	8-1-78	10:30	48,000	Log Stop
189	8-1-78	11:00	48,000	Begin Log
190	8-1-78	11:30	48,500	Log Stop
191	8-1-78	12:00	48,500	Begin Log
192	8-1-78	12:30	49,000	Log Stop
193	8-1-78	1:00	49,000	Begin Log
194	8-1-78	1:30	49,500	Log Stop
195	8-1-78	2:00	49,500	Begin Log
196	8-1-78	2:30	50,000	Log Stop
197	8-1-78	3:00	50,000	Begin Log
198	8-1-78	3:30	50,500	Log Stop
199	8-1-78	4:00	50,500	Begin Log
200	8-1-78	4:30	51,000	Log Stop
201	8-1-78	5:00	51,000	Begin Log
202	8-1-78	5:30	51,500	Log Stop
203	8-1-78	6:00	51,500	Begin Log
204	8-1-78	6:30	52,000	Log Stop
205	8-1-78	7:00	52,000	Begin Log
206	8-1-78	7:30	52,500	Log Stop
207	8-1-78	8:00	52,500	Begin Log
208	8-1-78	8:30	53,000	Log Stop
209	8-1-78	9:00	53,000	Begin Log
210	8-1-78	9:30	53,500	Log Stop
211	8-1-78	10:00	53,500	Begin Log
212	8-1-78	10:30	54,000	Log Stop
213	8-1-78	11:00	54,000	Begin Log
214	8-1-78	11:30	54,500	Log Stop
215	8-1-78	12:00	54,500	Begin Log
216	8-1-78	12:30	55,000	Log Stop
217	8-1-78	1:00	55,000	Begin Log
218	8-1-78	1:30	55,500	Log Stop
219	8-1-78	2:00	55,500	Begin Log
220	8-1-78	2:30	56,000	Log Stop
221	8-1-78	3:00	56,000	Begin Log
222	8-1-78	3:30	56,500	Log Stop
223	8-1-78	4:00	56,500	Begin Log
224	8-1-78	4:30	57,000	Log Stop
225	8-1-78	5:00	57,000	Begin Log
226	8-1-78	5:30	57,500	Log Stop
227	8-1-78	6:00	57,500	Begin Log
228	8-1-78	6:30	58,000	Log Stop
229	8-1-78	7:00	58,000	Begin Log
230	8-1-78	7:30	58,500	Log Stop
231	8-1-78	8:00	58,500	Begin Log
232	8-1-78	8:30	59,000	Log Stop
233	8-1-78	9:00	59,000	Begin Log
234	8-1-78	9:30	59,500	Log Stop
235	8-1-78	10:00	59,500	Begin Log
236	8-1-78	10:30	60,000	Log Stop
237	8-1-78	11:00	60,000	Begin Log
238	8-1-78	11:30	60,500	Log Stop
239	8-1-78	12:00	60,500	Begin Log
240	8-1-78	12:30	61,000	Log Stop
241	8-1-78	1:00	61,000	Begin Log
242	8-1-78	1:30	61,500	Log Stop
243	8-1-78	2:00	61,500	Begin Log
244	8-1-78	2:30	62,000	Log Stop
245	8-1-78	3:00	62,000	Begin Log
246	8-1-78	3:30	62,500	Log Stop
247	8-1-78	4:00	62,500	Begin Log
248	8-1-78	4:30	63,000	Log Stop
249	8-1-78	5:00	63,000	Begin Log
250	8-1-78	5:30	63,500	Log Stop
251	8-1-78	6:00	63,500	Begin Log
252	8-1-78	6:30	64,000	Log Stop
253	8-1-78	7:00	64,000	Begin Log
254	8-1-78	7:30	64,500	Log Stop
255	8-1-78	8:00	64,500	Begin Log
256	8-1-78	8:30	65,000	Log Stop
257	8-1-78	9:00	65,000	Begin Log
258	8-1-78	9:30	65,500	Log Stop
259	8-1-78	10:00	65,500	Begin Log
260	8-1-78	10:30	66,000	Log Stop
261	8-1-78	11:00	66,000	Begin Log
262	8-1-78	11:30	66,500	Log Stop
263	8-1-78	12:00	66,500	Begin Log
264	8-1-78	12:30	67,000	Log Stop
265	8-1-78	1:00	67,000	Begin Log
266	8-1-78	1:30	67,500	Log Stop
267	8-1-78	2:00	67,500	Begin Log
268	8-1-78	2:30	68,000	Log Stop
269	8-1-78	3:00	68,000	Begin Log
270	8-1-78	3:30	68,500	Log Stop
271	8-1-78	4:00	68,500	Begin Log
272	8-1-78	4:30	69,000	Log Stop
273	8-1-78	5:00	69,000	Begin Log
274	8-1-78	5:30	69,500	Log Stop
275	8-1-78	6:00	69,500	Begin Log
276	8-1-78	6:30	70,000	Log Stop
277	8-1-78	7:00	70,000	Begin Log
278	8-1-78	7:30	70,500	Log Stop
279	8-1-78	8:00	70,500	Begin Log
280	8-1-78	8:30	71,000	Log Stop
281	8-1-78	9:00	71,000	Begin Log
282	8-1-78	9:30	71,500	Log Stop
283	8-1-78	10:00	71,500	Begin Log
284	8-1-78	10:30	72,000	Log Stop
285	8-1-78	11:00	72,000	Begin Log
286	8-1-78	11:30	72,500	Log Stop
287	8-1-78	12:00	72,500	Begin Log
288	8-1-78	12:30	73,000	Log Stop
289	8-1-78	1:00	73,000	Begin Log
290	8-1-78	1:30	73,500	Log Stop
291	8-1-78	2:00	73,500	Begin Log
292	8-1-78	2:30	74,000	Log Stop
293	8-1-78	3:00	74,000	Begin Log
294	8-1-78	3:30	74,500	Log Stop
295	8-1-78	4:00	74,500	Begin Log
296	8-1-78	4:30	75,000	Log Stop
297	8-1-78	5:00	75,000	Begin Log
298	8-1-78	5:30	75,500	Log Stop
299	8-1-78	6:00	75,500	Begin Log
300	8-1-78	6:30	76,000	Log Stop
301	8-1-78	7:00	76,000	Begin Log
302	8-1-78	7:30	76,500	Log Stop
303	8-1-78	8:00	76,500	Begin Log
304	8-1-78	8:30	77,000	Log Stop
305	8-1-78	9:00	77,000	Begin Log
306	8-1-78	9:30	77,500	Log Stop
307	8-1-78	10:00	77,500	Begin Log
308	8-1-78	10:30	78,000	Log Stop
309	8-1-78	11:00	78,000	Begin Log
310	8-1-78	11:30	78,500	Log Stop
311	8-1-78	12:00	78,500	Begin Log
312	8-1-78	12:30	79,000	Log Stop
313	8-1-78	1:00	79,000	Begin Log
314	8-1-78	1:30	79,500	Log Stop
315	8-1-78	2:00	79,500	Begin Log
316	8-1-78	2:30	80,000	Log Stop
317	8-1-78	3:00	80,000	Begin Log
318	8-1-78	3:30	80,500	Log Stop
319	8-1-78	4:00	80,500	Begin Log
320	8-1-78	4:30	81,000	Log Stop
321	8-1-78	5:00	81,000	Begin Log
322	8-1-78	5:30	81,500	Log Stop
323	8-1-78	6:00	81,500	Begin Log
324	8-1-78	6:30	82,000	Log Stop
325	8-1-78	7:00	82,000	Begin Log
326	8-1-78	7:30	82,500	Log Stop
327	8-1-78	8:00	82,500	Begin Log
328	8-1-78	8:30	83,000	Log Stop
329	8-1-78	9:00	83,000	Begin Log
330	8-1-78	9:30	83,500	Log Stop
331	8-1-78	10:00	83,500	Begin Log
332	8-1-78	10:30	84,000	Log Stop
333	8-1-78	11:00	84,000	Begin Log
334	8-1-78	11:30	84,500	Log Stop
335	8-1-78	12:00	84,500	Begin Log
336	8-1-78	12:30	85,000	Log Stop
337	8-1-78	1:00	85,000	Begin Log
338	8-1-78	1:30	85,500	Log Stop
339	8-1-78	2:00	85,500	Begin Log
340	8-1-78	2:30	86,000	Log Stop
341	8-1-78	3:00	86,000	Begin Log
342	8-1-78	3:30	86,500	Log Stop
343	8-1-78	4:00	86,500	Begin Log
344	8-1-78	4:30	87,000	Log Stop
345	8-1-78	5:00	87,000	Begin Log
346	8-1-78	5:30	87,500	Log Stop
347	8-1-78	6:00	87,500	Begin Log
348	8-1-78	6:30	88,000	Log Stop
349	8-1-78	7:00	88,000	Begin Log
350	8-1-78	7:30	88,500	Log Stop
351	8-1-78	8:00	88,500	Begin Log
352	8-1-78	8:30	89,000	Log Stop
353	8-1-78	9:00	89,000	Begin Log
354	8-1-78	9:30	89,500	Log Stop
355	8-1-78	10:00	89,500	Begin Log
356	8-1-78	10:30	90,000	Log Stop
357	8-1-78	11:00	90,000	Begin Log
358	8-1-78	11:30	90,500	Log Stop
359	8-1-78	12:00	90,500	Begin Log
360	8-1-78	12:30	91,000	Log Stop
361	8-1-78	1:00	91,000	Begin Log
362	8-1-78	1:30	91,500	Log Stop
363	8-1-78	2:00	91,500	Begin Log
364	8-1-78	2:30	92,000	Log Stop
365	8-1-78	3:00	92,000	Begin Log
366	8-1-78	3:30	92,500	Log Stop
367	8-1-78	4:00	92,500	Begin Log
368	8-1-78	4:30	93,000	Log Stop
369	8-1-78	5:00	93,000	Begin Log
370	8-1-78	5:30	93,500	Log Stop
371	8-1-78	6:00	93,500	Begin Log
372	8-1-78	6:30	94,000	Log Stop
373	8-1-78	7:00	94,000	Begin Log
374	8-1-78	7:30	94,500	Log Stop
375	8-1-78	8:00	94,500	Begin Log
376	8-1-78	8:30	95,000	Log Stop
377	8-1-78	9:00	95,000	Begin Log
378	8-1-78	9:30	95,500	Log Stop
379	8-1-78	10:00	95,500	Begin Log
380	8-1-78	10:30	96,000	Log Stop
381	8-1-78	11:00	96,000	Begin Log
382	8-1-78	11:30	96,500	Log Stop
383	8-1-78	12:00	96,500	Begin Log
384	8-1-78	12:30	97,000	Log Stop
385	8-1-78	1:00	97,000	Begin Log
386	8-1-78	1:30	97,500	Log Stop
387	8-1-78	2:00	97,500	Begin Log
388	8-1-78	2:30	98,000	Log Stop
389	8-1-78	3:00	98,000	Begin Log
390	8-1-78	3:30	98,500	Log Stop
391	8-1-78	4:00	98,500	Begin Log
392	8-1-78	4:30	99,000	Log Stop
393	8-1-78	5:00	99,000	Begin Log
394	8-1-78	5:30	99,500	Log Stop
395	8-1-78	6:00	99,500	Begin Log
396	8-1-78	6:30	100,000	Log Stop
397	8-1-78	7:00	100,000	Begin Log
398	8-1-78	7:30	100,500	Log Stop
399	8-1-78	8:00	100,500	Begin Log
400	8-1-78	8:30	101,000	Log Stop
401	8-1-78	9:00	101,000	Begin Log
402	8-1-78	9:30	101,500	Log Stop
403	8-1-78	10:00	101,500	Begin Log
404	8-1-78	10:30	102,000	Log Stop
405	8-1-78	11:00	102,000	Begin Log
406	8-1-78	11:30	102,500	Log Stop
407	8-1-78	12:00	102,500	Begin Log
408	8-1-78	12:30	103,000	Log Stop
409	8-1-78	1:00	103,000	Begin Log
410	8-1-78	1:30	103,500	Log Stop
411	8-1-78	2:00	103,500	Begin Log
412	8-1-78	2:30	104,000	Log Stop
413	8-1-78	3:00	104,000	Begin Log
414	8-1-78	3:30	104,500	Log Stop
415	8-1-78	4:00	104,500	Begin Log
416	8-1-78	4:30	105,000	Log Stop
417	8-1-78	5:00	105,000	Begin Log
418	8-1-78	5:30	105,500	Log Stop
419	8-1-78	6:00	105,500	Begin Log
420	8-1-78	6:30	106,000	Log Stop
421	8-1-78	7:00	106,000	Begin Log
422	8-1-78	7:30	106,500	Log Stop
423	8-1-78	8:00	106,500	Begin Log
424	8-1-78	8:30	107,000	Log Stop
425	8-1-78	9:00	107,000	Begin Log
426	8-1-78	9:30	107,500	Log Stop
427	8-1-78	10:00	107,500	Begin Log
428	8-1-78	10:30	108,000	Log Stop
429	8-1-78	11:00	108,000	Begin Log
430	8-1-78	11:30	108,500	Log Stop
431	8-1-78	12:00	108,500	Begin Log
432	8-1-78	12:30	109,000	Log Stop
433	8-1-78	1:00	109,000	Begin Log
434	8-1-78	1:30	109,500	Log Stop
435	8-1-78	2:00	109,500	Begin Log
436	8-1-78	2:30	110,000	Log Stop
437	8-1-78	3:00	110,000	Begin Log
438	8-1-78	3:30	110,500	Log Stop
439	8-1-78	4:00	110,500	Begin Log
440	8-1-78	4:30	111,000	Log Stop
441	8-1-78	5:00	111,000	Begin Log
442	8-1-78	5:30	111,500	Log Stop
443	8-1-78	6:00	111,500	Begin Log
444	8-1-78	6:30	112,000	Log Stop
445	8-1-78	7:00	112,000	Begin Log
446	8-1-78	7:30	112,500	Log Stop
447	8-1-78	8:00	112,500	Begin Log
448	8-1-78	8:30	113,000	Log Stop
449	8-1-78	9:00	113,000	Begin Log
450	8-1-78	9:30	113,500	Log Stop
451	8-1-78	10:00	113,500	Begin Log
452	8-1-78	10:30	114,000	Log Stop
453	8-1-78	11:00	114,000	Begin Log
454	8-1-78	11:30	114,500	Log Stop
455	8-1-78	12:00	114,500	Begin Log
456	8-1-78	12:30	115,000	Log Stop
457	8-1-78	1:00	115,000	Begin Log
458	8-1-78	1:30	115,500	Log Stop
459	8-1-78	2:00	115,500	Begin Log
460	8-1-78	2:30	116,000	Log Stop
461	8-1-78	3:00	116,000	Begin Log
462	8-1-78	3:30	116,500	Log Stop
463	8-1-78	4:00	116,500	Begin Log
464	8-1-78	4:30	117,000	Log Stop
465	8-1-78	5:00	117,000	Begin Log
466	8-1-78	5:30	117,500	Log Stop
467	8-1-78	6:00	117,500	Begin Log
468	8-1-78	6:30	118,000	Log Stop
469	8-1-78	7:00	118,000	Begin Log
470	8-1-78	7:30	118,500	Log Stop
471	8-1-78	8:00	118,500	Begin Log
472	8-1-78	8:30	119,000	Log Stop
473	8-1-78	9:00	119,000	Begin Log
474	8-1-78	9:30	119,500	Log Stop
475	8-1-78	10:00	119,500	Begin Log
476	8-1-78	10:30	120,000	Log Stop
477	8-1-78	11:00	120,000	Begin Log
478	8-1-78	11:30	120,500	Log Stop
479	8-1-78	12:00	120,500	Begin Log
480	8-1-78	12:30	121,000	Log Stop
481	8-1-78	1:00	121,000	Begin Log
482	8-1-78	1:30	121,500	Log Stop
483	8-1-78	2:00	121,500	Begin Log
484	8-1-78	2:30	122,000	Log Stop
485	8-1-78	3:00	122,000	Begin Log
486	8-1-78	3:30	122,500	Log Stop
487	8-1-78	4:00	122,500	Begin Log
488	8-1-78	4:30	123,000	Log Stop
489	8-1-78	5:00	123,000	Begin Log
490	8-1-78	5:30	123,500	Log Stop
491	8-1-78	6:00	123,500	Begin Log
492	8-1-78	6:30	124,000	Log Stop
493	8-1-78	7:00	124,000	Begin Log
494	8-1-78	7:30	124,500	Log Stop
495	8-1-78	8:00	124,500	Begin Log
496	8-1-78	8:30	125,000	Log Stop
497	8-1-78	9:00	125,000	Begin Log
498	8-1-78	9:30	125,500	Log Stop
499	8-1-78	10:00	125,

ROKE CANADA OIL & GAS LIMITED

ROKE ENTERPRISES LTD. CALGARY ALBERTA

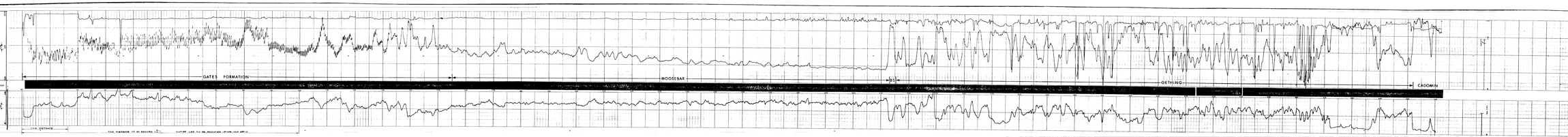
FILE NO.	
DATE	
COMPANY	CANADIAN ROKE CORETEC COAL DEVELOPMENT
WELL	G.A.R. 90-02
LOCATION	
FIELD	ROCKY BUTE
COUNTRY	CANADA PROVINCE COLUMBIA
PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL
Log Measured from	ROCK BOLTS
Drilling Measured from	ROCK BOLTS
Elev. Perm.	1.7 MM
Elev. K.B.	1.7 MM
Elev. D.F.	1.7 MM
Elev. G.L.	1.7 MM
Date Started	1-Jun-90
Date Finished	1-Jun-90
Total Depth Driller	25.0
Total Depth Logger	25.0
Bottom Log Interval	25.0
Top Log Interval	0.0
Casing Driller	0.0
Casing Logger	0.0
Bit Size	0.0
Type Fluid in Hole	AIR
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ °F	0.0 @ 0.0 °C
Rmf @ °F	
Rmc @ °F	
Source Rmf / Rmc	
Rm @ BHT	0.0 @ 0.0
Time Since Circ.	0.0 HRS
Max. Rec. Temp.	0.0 °C
Equip. Location	
Recorded By	
Witnessed By	

Printed By: JOB Checked By: BRIAN

Run No.	ONE
Depth Driller	25.0
Depth Logger	25.0
Bottom Log Interval	25.0
Top Log Interval	0.0
Casing Driller	0.0
Casing Logger	0.0
Bit Size	0.0
Type Fluid in Hole	AIR
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ °F	0.0 @ 0.0 °C
Rmf @ °F	
Rmc @ °F	
Source Rmf / Rmc	
Rm @ BHT	0.0 @ 0.0
Time Since Circ.	0.0 HRS
Max. Rec. Temp.	0.0 °C
Equip. Location	
Recorded By	
Witnessed By	

Run No.	ONE
Depth Driller	25.0
Depth Logger	25.0
Bottom Log Interval	25.0
Top Log Interval	0.0
Casing Driller	0.0
Casing Logger	0.0
Bit Size	0.0
Type Fluid in Hole	AIR
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ °F	0.0 @ 0.0 °C
Rmf @ °F	
Rmc @ °F	
Source Rmf / Rmc	
Rm @ BHT	0.0 @ 0.0
Time Since Circ.	0.0 HRS
Max. Rec. Temp.	0.0 °C
Equip. Location	
Recorded By	
Witnessed By	

Run No.	ONE
Depth Driller	25.0
Depth Logger	25.0
Bottom Log Interval	25.0
Top Log Interval	0.0
Casing Driller	0.0
Casing Logger	0.0
Bit Size	0.0
Type Fluid in Hole	AIR
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ °F	0.0 @ 0.0 °C
Rmf @ °F	
Rmc @ °F	
Source Rmf / Rmc	
Rm @ BHT	0.0 @ 0.0
Time Since Circ.	0.0 HRS
Max. Rec. Temp.	0.0 °C
Equip. Location	
Recorded By	
Witnessed By	



ROKE WIRELINE SERVICES

OIL ENTERPRISES LTD. VALMY, ALBERTA

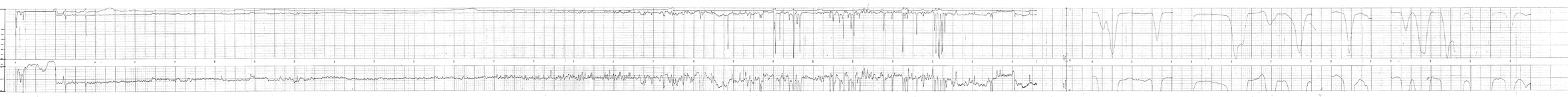
FILE	
COMPANY	ENERGEX ROYALTY HOLDING LTD.
WELL	6-5-9-1 W5
FIELD	WILDCAT
COUNTY	ROCKY VIEW
PROVINCE	ALBERTA
COUNTRY	CANADA
LOCATION	1
DATE	20-10-88
RUN NO.	ONE
DEPTH DRILLER	1100
DEPTH LOGGER	1100
BTM. LOG INTERVAL	1100
TOP LOG INTERVAL	SURFACE
CASING DRILLER	9 5/8" @ 29.4
CASING LOGGER	29.4
BIT SIZE	8 3/4"
TYPE FLUID IN HOLE	FRESH
DENSITY	8.4
VISCOSITY	28
PH	7.5
RM @ MEAS. TEMP.	1.0 @ 20
RMF @ MEAS. TEMP.	1.0 @ 20
RMC @ MEAS. TEMP.	1.0 @ 20
SOURCE OF RMF & RMC	MEAS.
RM @ BHT	0.5 @ 40
TIME SINCE CIRC.	12 HRS
TIME SINCE STOP	1 HR
MAX. REC. TEMP.	40
EQUIP. LOCATION	2
RECORDED BY	D. MAC
WITNESSED BY	MR. ROKE

DIFL-SFL

DIFL	
SFL	
GR	
CALIPER	
SP	
DT	

DIFL-SFL

DIFL	
SFL	
GR	
CALIPER	
SP	
DT	



ROKE

GAMMA RAY NEUTRON LOG

COMPANY	[illegible]
WELL	[illegible]
FIELD	[illegible]
COUNTY	[illegible]
STATE	[illegible]
LOCATION	[illegible]
SEC	[illegible]
TWP	[illegible]
RGE	[illegible]
ELEV	[illegible]
DATE	[illegible]
RUN NO.	[illegible]
DEPTH	[illegible]
LOGGED BY	[illegible]
WITNESSED BY	[illegible]

[illegible]

(5)

EQUIPMENT DATA

LOGGING UNIT	[illegible]
TRUCK NO.	[illegible]
DETECTOR	[illegible]
SPACING	[illegible]
HIGH VOLTAGE	[illegible]
RATE	[illegible]
TIME CONST.	[illegible]
CALIBRATOR	[illegible]
CALIBRATION	[illegible]
BY	[illegible]
DATE	[illegible]
RECORDED BY	[illegible]
WITNESSED BY	[illegible]

REMARKS

RUN NO.	[illegible]
TYPE FLUID IN HOLE	[illegible]
DENSITY	[illegible]
LEVEL	[illegible]
MAX. REC. TEMP.	[illegible]
EQUIP. LOC.	[illegible]
RECORDED BY	[illegible]
WITNESSED BY	[illegible]

RECORDED BY: [illegible]
WITNESSED BY: [illegible]

CASING DATA

	SIZE	WT.	GRADE	THD.	TOP	BTM.	SIZE	WT.	GRADE	THD.	TOP	BTM.
CSG.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TYPE: [illegible]

TOP DRILLER'S DEPTH: [illegible]

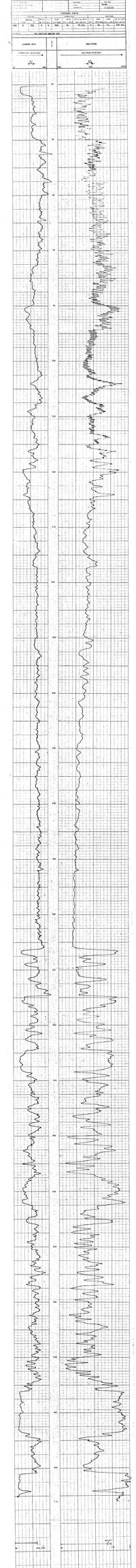
INTERPRETATION	[illegible]
TD	[illegible]
PROFESSIONAL	[illegible]
NET PAY	[illegible]
TOP	[illegible]
BTM.	[illegible]
A. ZONE	[illegible]

GAMMA RAY

GAMMA RAY NEUTRON

0 API 100

NEUTRON

NEUTRON NEUTRON

-10 % 30