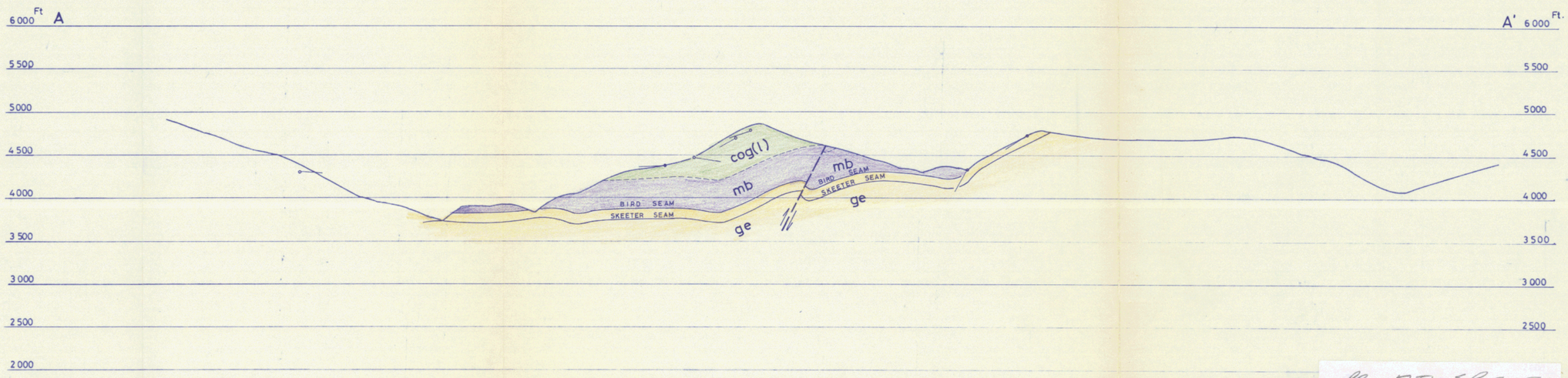


LEGEND

COAL SEAM	cobc	COMMOTION F.	BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F.	HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F.	GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F.	GATES (LOWER) M.
	mb	MOOSEBAR F.	
	ge	GETHING F.	

RE- MT. SPIEKER 75(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION

(A ~ A')

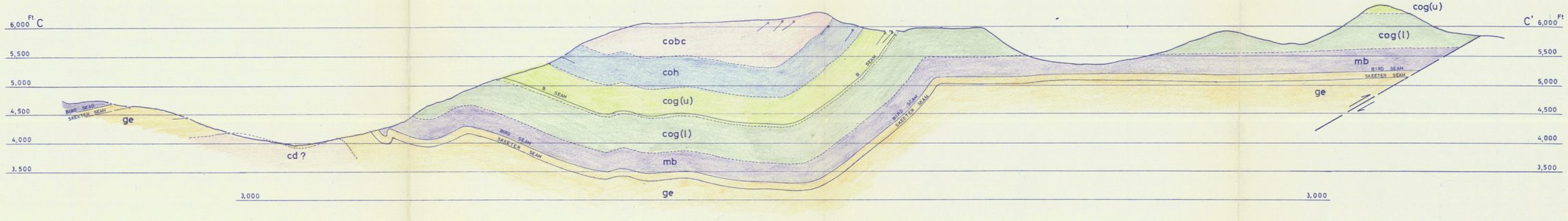
SCALE 1"= 1,000'

DATE : SEP. 1975 | MAP No.: 75-03-1

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



LEGEND

COAL SEAM	cobc	COMMOTION F.	BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F.	HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F.	GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F.	GATES (LOWER) M.
	mb	MOOSEBAR F.	
	ge	GETHING F.	
	cd	CADOMIN F.	

Pr. MT. SPIEKER - 75 (2) A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION

(C ~ C')

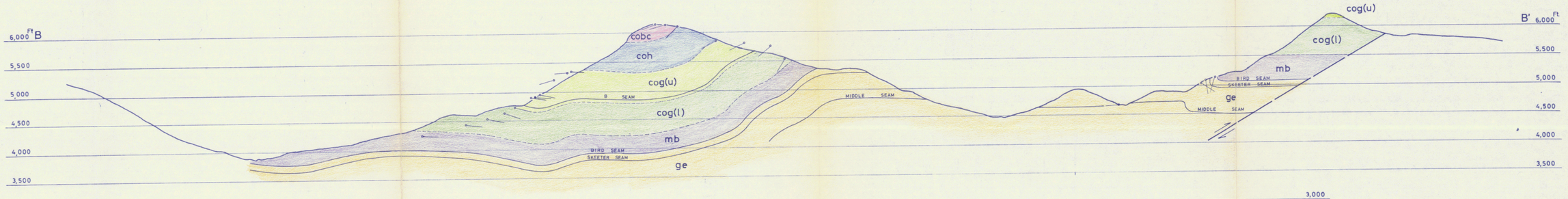
SCALE 1"= 1000'

DATE : SEP. 1975 | MAP No.: 75-03-3

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



LEGEND

COAL SEAM	cobc	COMMOTION F.	BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F.	HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F.	GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F.	GATES (LOWER) M.
	mb	MOOSEBAR F.	
	ge	GETHING F.	

Pr- MT. SPIEKER 75(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION (B ~ B')

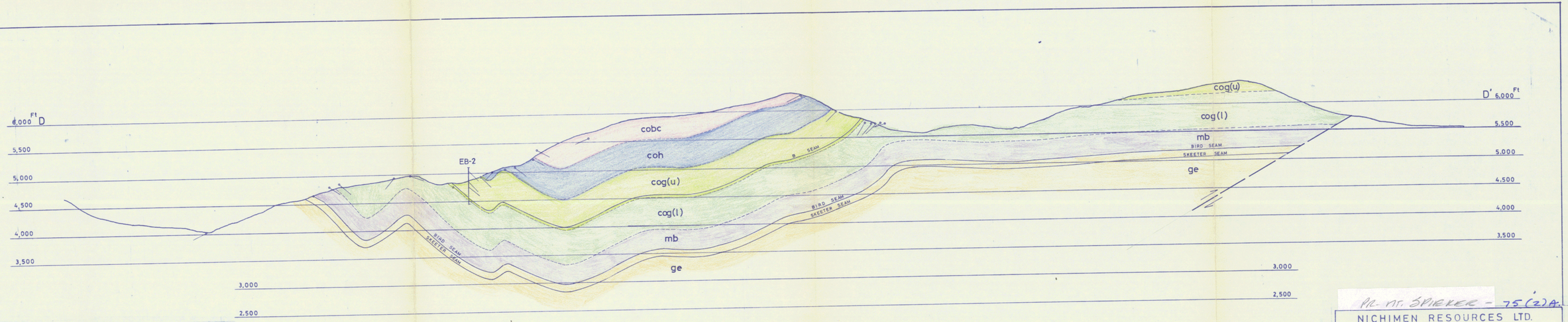
SCALE 1"= 1,000'

DATE : SEP. 1975 | MAP No.: 75-03-2

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



LEGEND

COAL SEAM	cobc	COMMOTION F. BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F. HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F. GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F. GATES (LOWER) M.
	mb	MOOSEBAR F.
	ge	GETHING F.

Pr. Mt. Spieker - 75(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION (D ~ D')

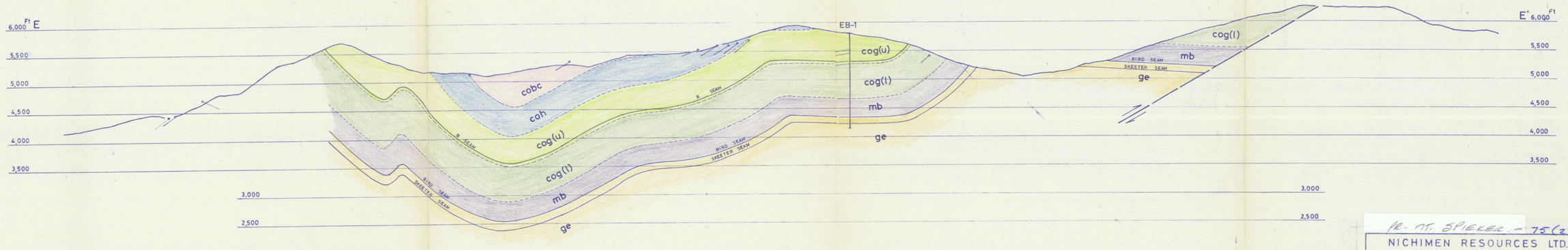
SCALE 1"= 1,000'

DATE : SEP. 1975 | M.P No.: 75-03-4

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



LEGEND

COAL SEAM	cobc	COMMOTION F.	BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F.	HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F.	GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F.	GATES (LOWER) M.
	mb	MOOSEBAR F.	
	ge	GETHING F.	

AR - MT. SPIEKER - 75(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION (E - E')

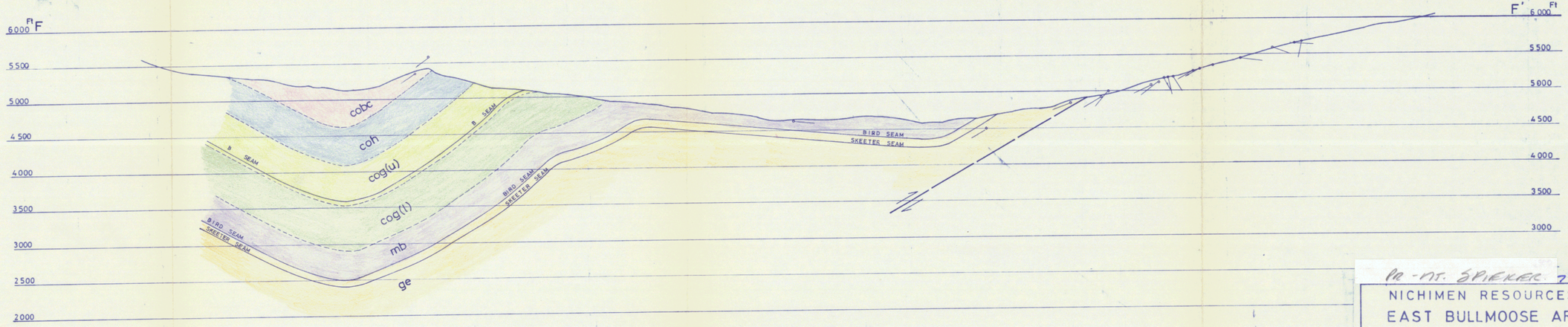
SCALE 1" = 1,000'

DATE : SEP. 1975 | MAP No.: 75-03-5

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



LEGEND

COAL SEAM	cobc	COMMOTION F.	BOULDER CREEK M.
MEASURED DIP	coh	COMMOTION F.	HULCROSS M.
GEOLOGICAL CONTACT	cog(u)	COMMOTION F.	GATES (UPPER) M.
FAULT	cog(l)	COMMOTION F.	GATES (LOWER) M.
	mb	MOOSEBAR F.	
	ge	GETHING F.	

Re - MT. SPIEKER 75 (2) A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

GEOLOGICAL CROSS SECTION (F - F')

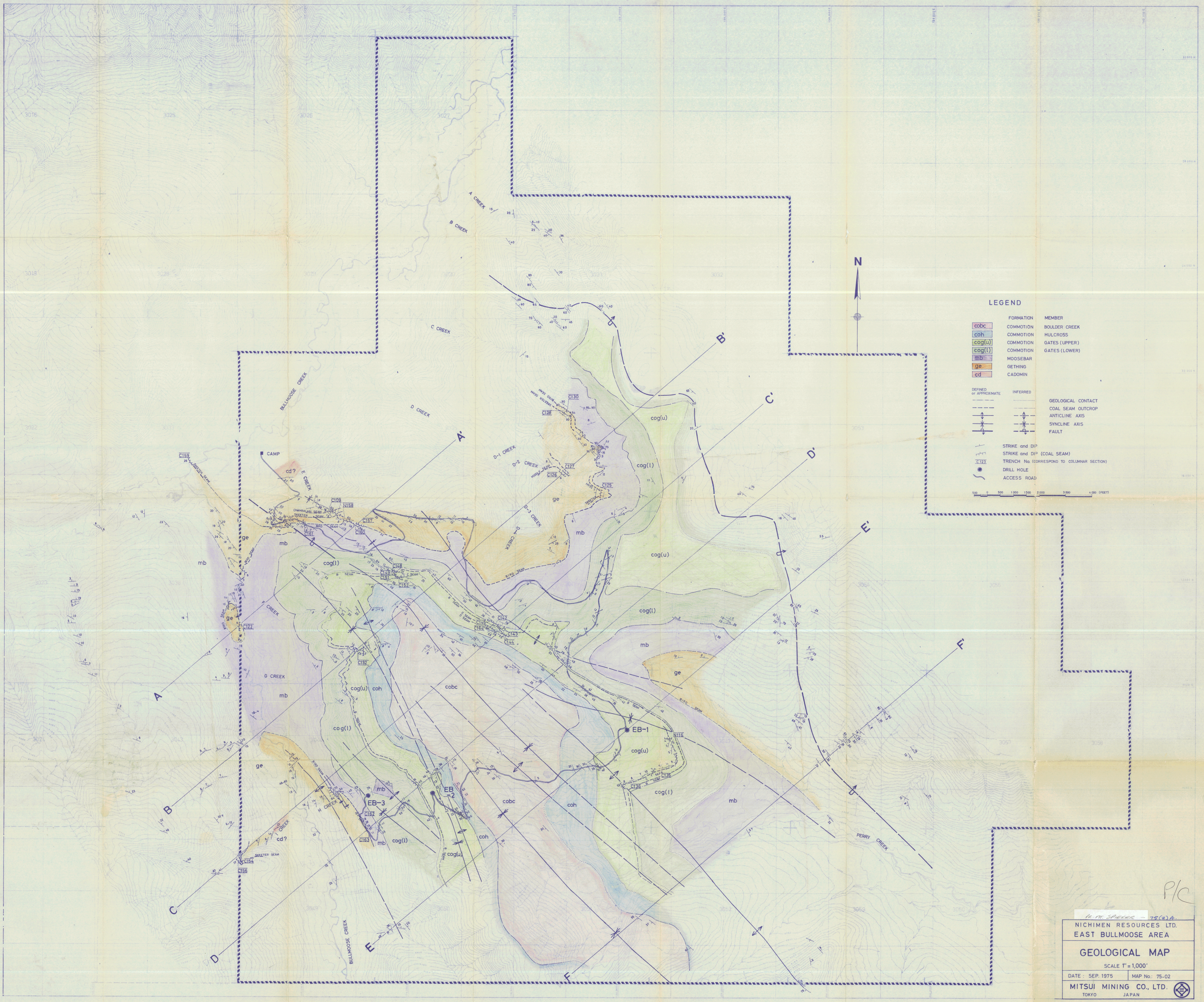
SCALE 1"= 1,000'

DATE : SEP. 1975 | MAP No.: 75-03-6

MITSUI MINING CO., LTD.

TOKYO JAPAN

552



PR-MT. SPIEKER — 75(2)A.

NICHIMEN RESOURCES LTD.
EAST BULLMOOSE AREA

GEOLOGICAL MAP

SCALE 1" = 1,000'

DATE : SEP. 1975	MAP No.: 75-02

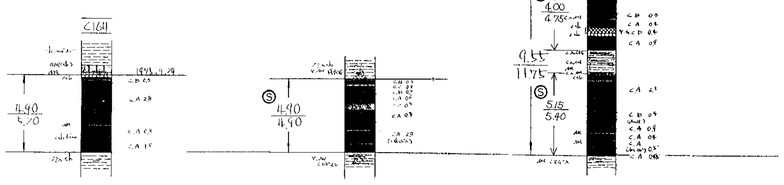
MITSUI MINING CO., LTD.
TOKYO JAPAN

P/C

552

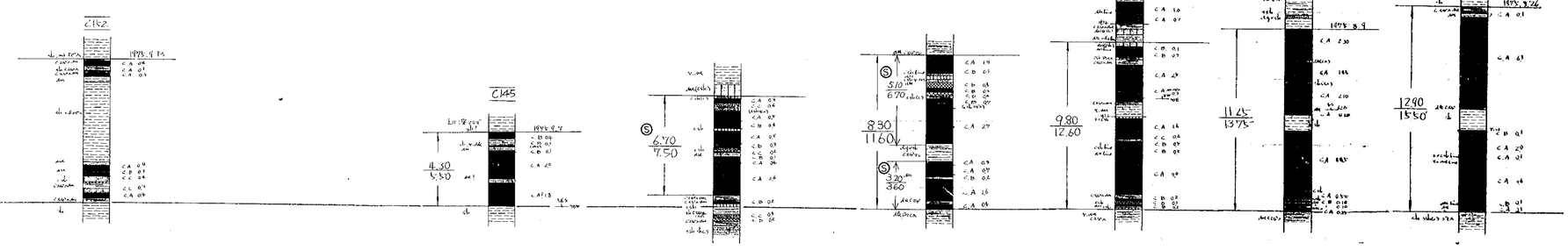
E CREEK G CREEK D-4 CREEK EB-2 EB-1

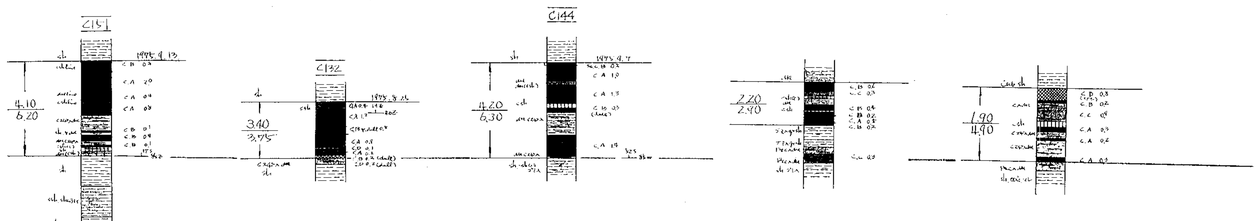
D SEAM

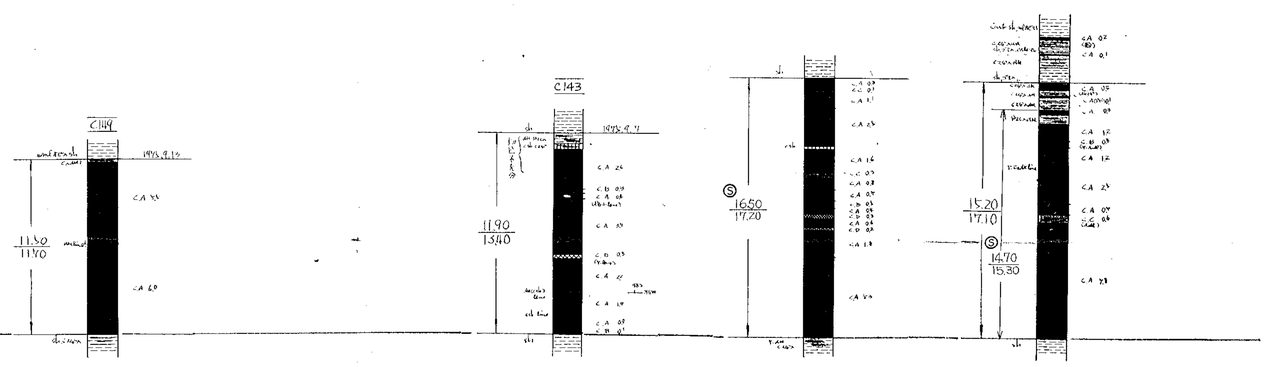


SOUTH of EB-1
(TRENCH)

C SEAM

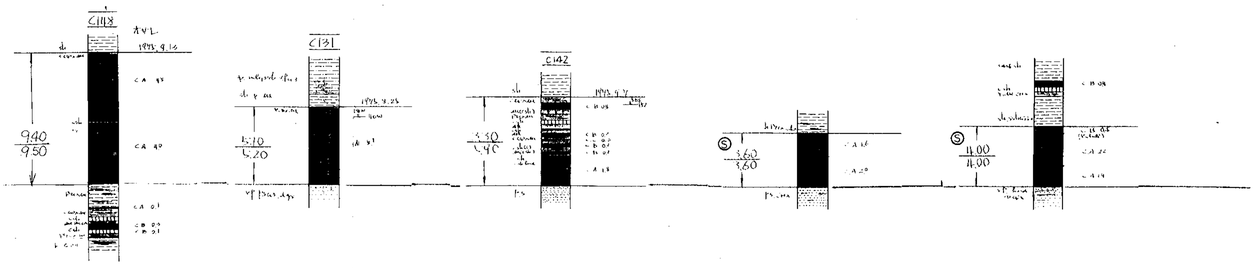






B SEAM

A SEAM



LEGEND

- COAL A or B
- COAL C
- COAL D (not included in coal thickness)
- COALY SHALE
- DARK (COALY SHALE)
- SHALE
- SANDY SHALE
- VERY FINE SANDSTONE
- FINE SANDSTONE or MEDIUM SANDSTONE
- CONGLOMERATE

12.90 / 15.50 COAL SEAM THICKNESS IN FEET

(S) SAMPLED SECTION

P/C 552

Re: M. SPEAKER - 75(2)A.

NICHIMEN RESOURCES LTD.
EAST BULLMOOSE AREA

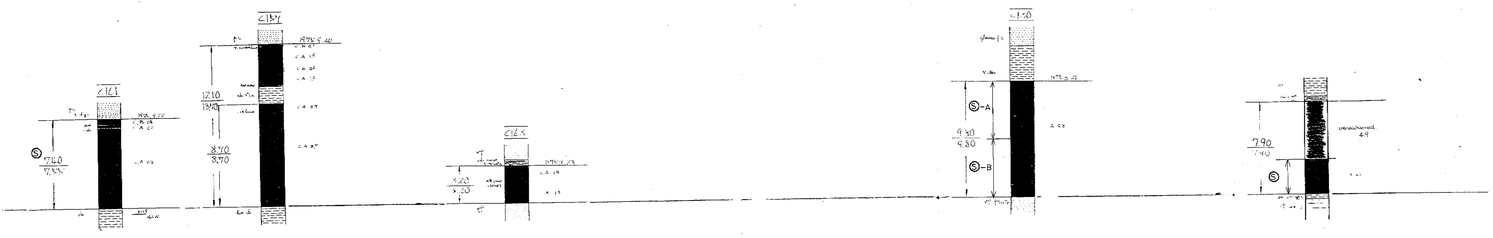
COLUMNAR SECTIONS OF COAL SEAMS
(GATES MEMBER)
SCALE 1" = 5'

DATE : SEP. 1975 | MAP No.: 75-05-1

MITSUI MINING CO., LTD.
TOKYO JAPAN

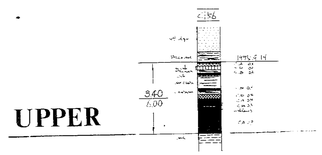
BULLMOOSE CREEK | I CREEK | E CREEK | ROAD to EB-3 | EB-3 | D CREEK | EB-1

BIRD SEAM (UPPER)

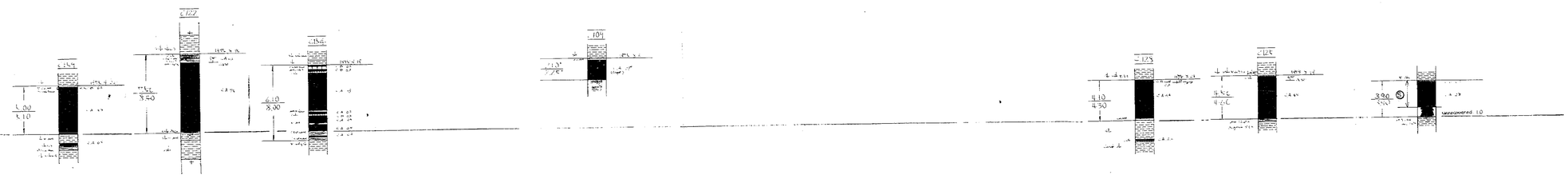


BIRD SEAM (LOWER)

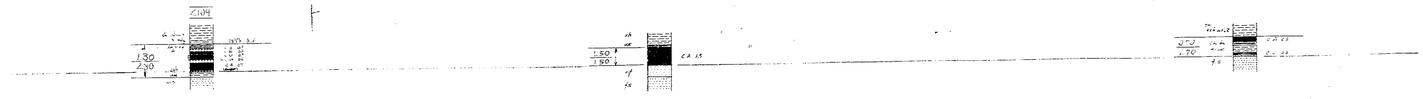
UPPER



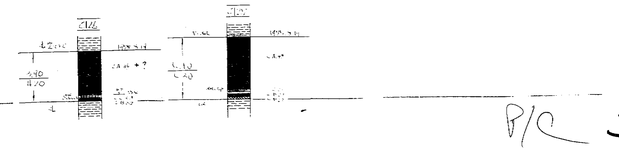
SKEETER SEAM



CHAMBALAIN SEAM



MIDDLE SEAM



LEGEND

- COAL A or B
- COAL C
- COAL D (not included in coal thickness)
- COALY SHALE
- DARK (COALY SHALE)
- SHALE
- SANDY SHALE
- VERY FINE SANDSTONE
- FINE SANDSTONE or MEDIUM SANDSTONE
- CONGLOMERATE

12.10 / 13.70 COAL SEAM THICKNESS IN FEET

Ⓢ SAMPLED SECTION

P/C 552

Re-M.T. SPENCER — 75(2)A

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

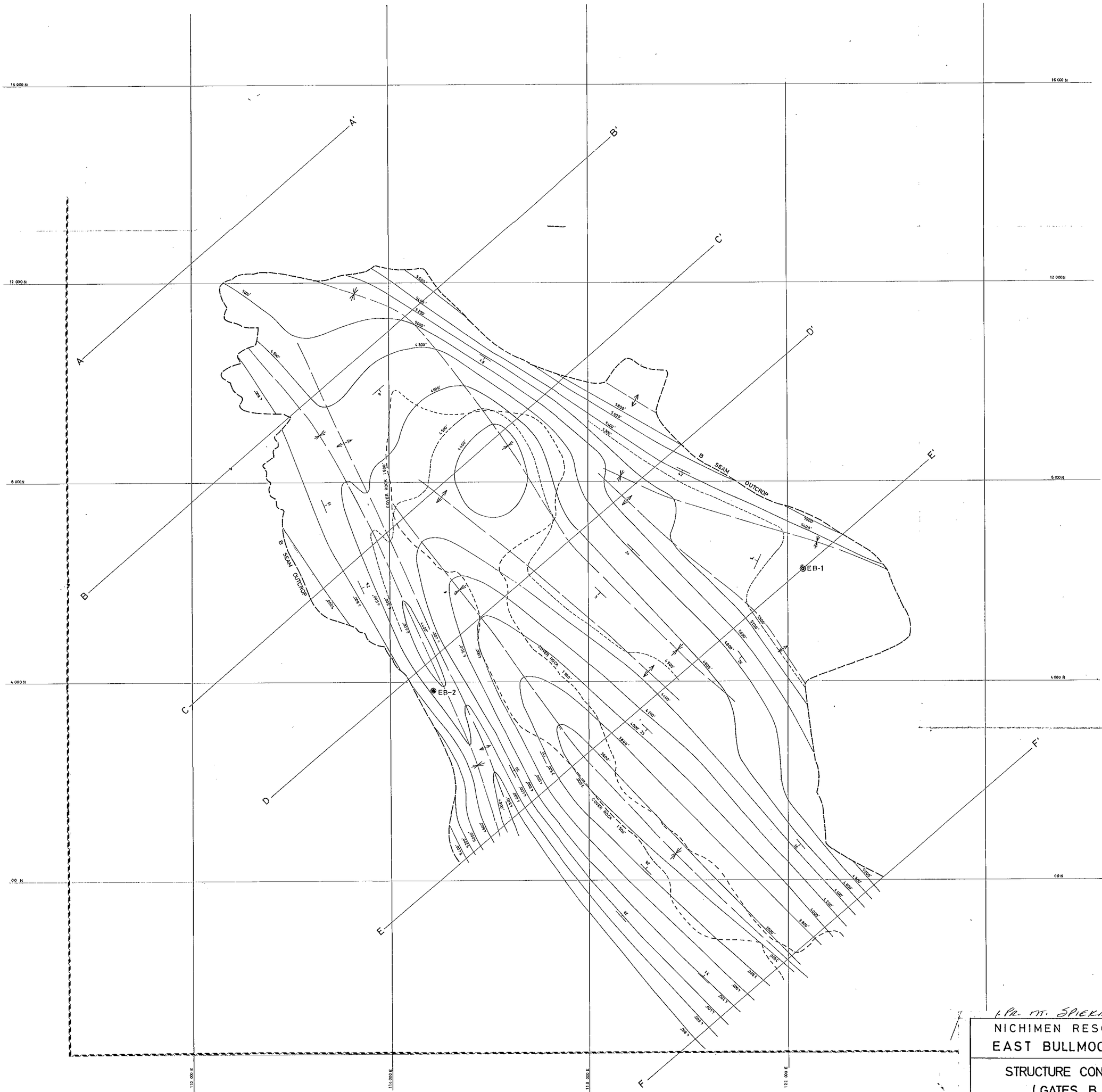
COLUMNAR SECTIONS OF COAL SEAMS (GETHING FORMATION)

SCALE 1" = 5'

DATE : SEP. 1975 | MAP No.: 75-05-2

MITSUI MINING CO., LTD.

TOKYO JAPAN



L. Pr. MT. SPIEKER — 75 (2) A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

STRUCTURE CONTOUR MAP

(GATES B SEAM)

SCALE 1" = 1,000'

DATE : SEP. 1975 | MAP No.: 75-07-1

MITSUI MINING CO., LTD.

TOKYO JAPAN

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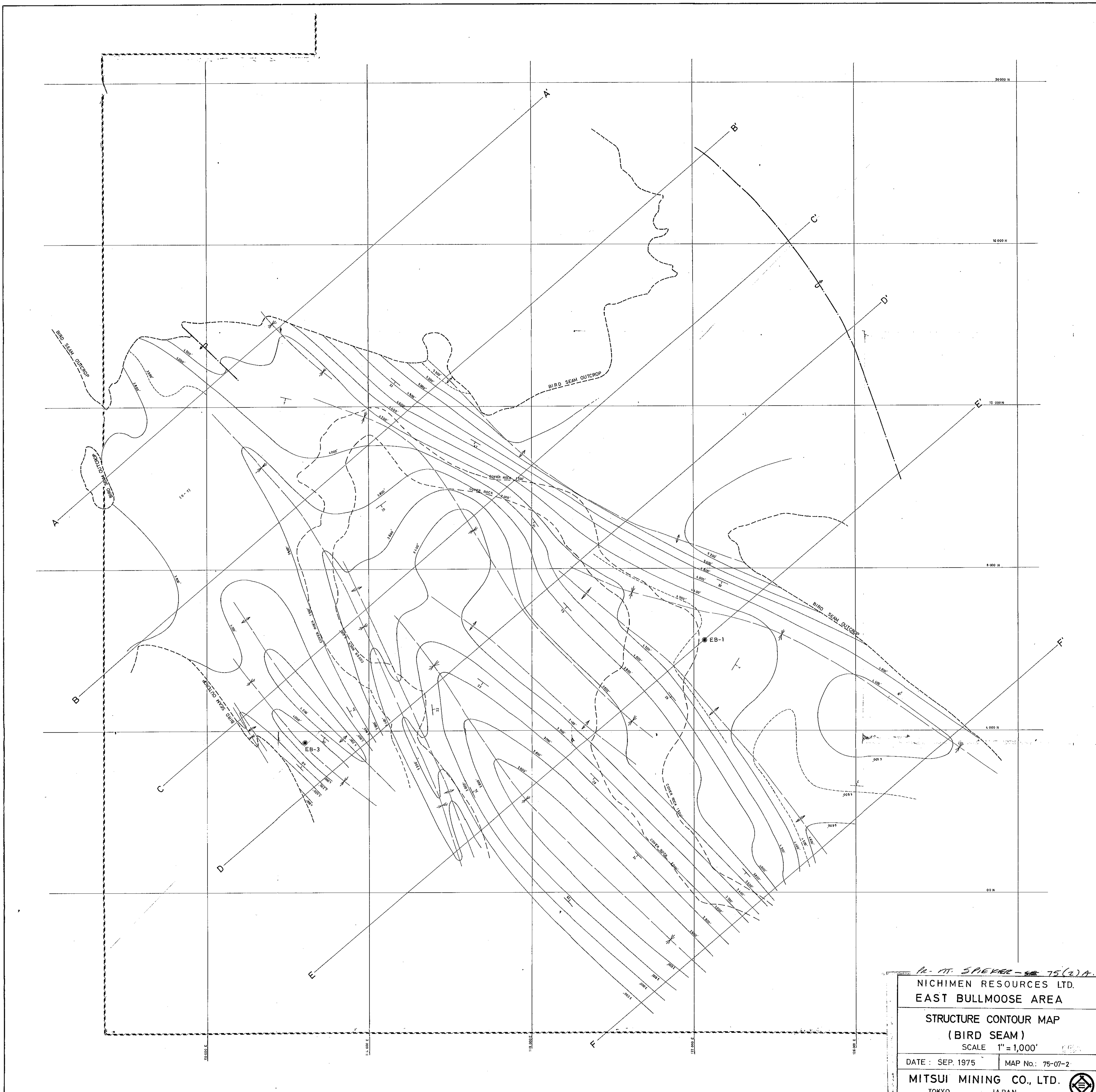


Pr- MT. SPIEKER - 75(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

STRUCTURE CONTOUR MAP

(BIRD SEAM)

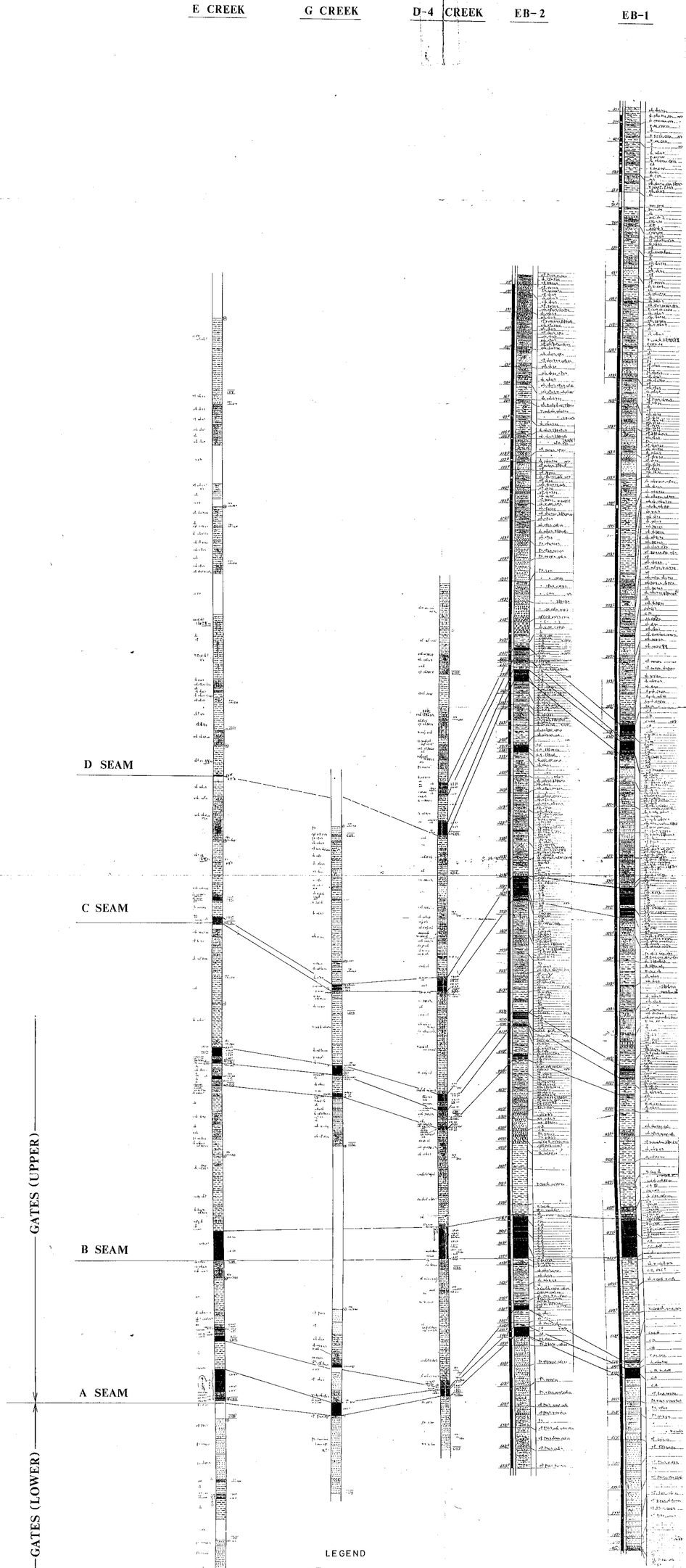
SCALE 1" = 1,000'

DATE : SEP. 1975

MAP No.: 75-07-2

MITSUI MINING CO., LTD.

TOKYO JAPAN



LEGEND

- COAL A or B
- COAL C
- COAL D
- COALY SHALE
- DARK (COALY SHALE)
- SHALE
- SANDY SHALE
- VERY FINE SANDSTONE
- FINE SANDSTONE or MEDIUM SANDSTONE
- CONGLOMERATE

552

PR ITT SPIELER

NICHIMEN RESOURCES LTD.
EAST BULLMOOSE AREA
CORRELATION CHART
(GATES MEMBER)
SCALE 1"=20'
DATE SEP. 1975 | MAP No. 75-04-1
MITSUI MINING CO. LTD
TOKYO JAPAN

BULLMOOSE CREEK | E CREEK | ROAD to EB-3 | EB-3 | D-1 CREEK | D-2 CREEK | EB-1

MOOSEBAR FORMATION

BIRD SEAM (UPPER)

BIRD SEAM (LOWER)

GETHING FORMATION

I CREEK

SKEETER SEAM

CHAMBALAIN SEAM

LEGEND

- COAL A or B
- COAL C
- COAL D
- COALY SHALE
- DARK (COALY SHALE)
- SHALE
- SANDY SHALE
- VERY FINE SANDSTONE
- FINE SANDSTONE or MEDIUM SANDSTONE
- CONGLOMERATE

552

PR-MT. SPIEKER - 76(2)A.

NICHIMEN RESOURCES LTD.

EAST BULLMOOSE AREA

CORRELATION CHART (GETHING FORMATION)

SCALE 1"=20'

DATE : SEP. 1975 | MAP No.: 75-04-2

MITSUI MINING CO., LTD.

TOKYO JAPAN

NOV 1976

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.	16.77 SPIEKER - 75(2)A
COMPANY	NICHIMEN RESOURCES LTD
WELL	EB-1
LOCATION	MT SPI...
FIELD	
PROVINCE	BRITISH COLUMBIA
LSD / SEC / TWP / RGE / W M	
Permanent Datum	GROUND LEVEL Elev. 5858
Log Measured from	RIG FLOOR 4 Ft. Above Perm. Datum
Drill Depths Measured from	RIG FLOOR
Other Services	DENS
K.B. / G.L. / CSG	

Run No.	ONE
Date	SEPT 10/75
First Reading	1643
Last Reading	0
Footage Logged	1643
Depth Reached	1644
Depth Driller	1658
Casing Driller	
Casing Roke	
Fluid Type	MUD
Liquid Level	
Min. Diam.	NQ
Rm @ °F	
Operating Time	3½ HOURS
Truck No.	30

Recorded By SUNDGAARD Witnessed By SHILLING

MAP No: 75-06-1

552

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	65	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	65
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	265
HOIST TRUCK NO.	30	SPACING	
INSTRUMENT TRUCK NO.	30	TYPE	AmBe
TOOL SERIAL NO.	65	STRENGTH	3 CURRIES

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	GAMMA RAY T.C. SEC.	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	NEUTRON T.C. SEC.	NEUTRON SENS SETTINGS	NEUTRON ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	0	1643	42	4	100	0	17	4	1000	0	250

REMARKS LOGGED THROUGH NQ ROD

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON

FILE NO. PR-MT. SPIEKER — 75(2)A

LSD	
SEC	
TWP	
RGE	
W _ M	
COMPANY	NICHIMEN RESOURCES LTD
WELL	EB - 2 (MS2?)
LOCATION	MT. SPIEKER
FIELD	
PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL — Elev.
Log Measured from	GROUND LEVEL — Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR

Other Services: DENS

K.B. ___ CSG ___ G.L. ___

Run. No.	ONE
Date	18 SEPTEMBER 1975
First Reading	609
Last Reading	00
Footage Logged	609
Depth Reached	610
Depth Driller	628
Casing Roke	
Casing Driller	
Fluid Type	AIR/QUICK GEL
Liquid Level	
Min. Diam.	2-3/4
Rm @ °F	
Operating Time	2 HOURS
Truck No.	SU-5
Recorded By:	HEDIN
Witnessed By:	ROBERTS

MAP No: 75-06-3

552

E. Bolli/MS&K. Dec. 1975

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	340	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	340
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	4 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	5.5 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU-5	SPACING	
INSTRUMENT TRUCK NO.	SU-5	TYPE	AmBe
TOOL SERIAL NO.	340	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	00	609	12	5	100	-	17 API	3	500	-	250 API

REMARKS LOGGED THROUGH DRILL PIPE

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES → API 17; 0 — 85 — 170		NEUTRON INCREASES → API 250; 0 — 2500 — 5000

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

PR- MT. SPIEKER - E 75(2)A

FILE NO.

LSD
SEC
TWP
RGE
W ____ M

COMPANY NICHIMEN RESOURCES LTD

WELL EB - 2

LOCATION MT. SPIEKER

FIELD

PROVINCE BRITISH COLUMBIA

Other Services: GRN

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Ft. Above Perm. Datum
Well Depths Measured from RIG FLOOR

K.B.
CSG
G.L.

Run. No.	ONE		
Date	18 SEPTEMBER 1975		
First Reading	607		
Last Reading	00		
Footage Logged	607		
Depth Reached	610		
Depth Driller	628		
Casing Roke			
Casing Driller			
Fluid Type	AIR/QUICK GEL		
Liquid Level			
Min. Diam.	2-3/4		
Operating Time	2 HOURS		
Truck No.	SU-5		

552

MAP No.: 75-06-4

Recorded By HEDIN Witnessed By ROBERTS

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/DIV
1	00	607	12					3	1000	1.8R	23.35

REMARKS LOGGED THROUGH DRILL ROD

DENSITY TOOL SERIAL NO 553

CALIPER (DIAMETER – INCHES)

DEPTHS

GAMMA RAY API

CONSIDERATION MUST BE GIVEN TO THE POSITION OF THE DRILL ROD WHEN USING THE BULK DENSITY VALUES

BULK DENSITY (GRAMS/CC)

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON

FILE NO.	Pe. 177 SPIEKER - 75 (2) 14
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	NITCHUMEN RESOURCES LIMITED
WELL	EB-3
LOCATION	BULLMOOSE CREEK
FIELD	
PROVINCE	BRITISH COLUMBIA
Other Services:	DENS.
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	RIG FLOOR 2 Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	SEPT 24 1975
First Reading	5 9
Last Reading	000
Footage Logged	519
Depth Reached	520
Depth Driller	520
Casing Roke	-
Casing Driller	-
Fluid Type	AIR/QUCK GEL
Liquid Level	-
Min. Diam.	NQ
Rm @ °F	
Operating Time	2 HRS
Truck No.	SU-5
Recorded By	HEDIN
Witnessed By	ROBERTS

MAP No.: 75-06-5

552

Bullmoose Dec 1975

EQUIPMENT DATA

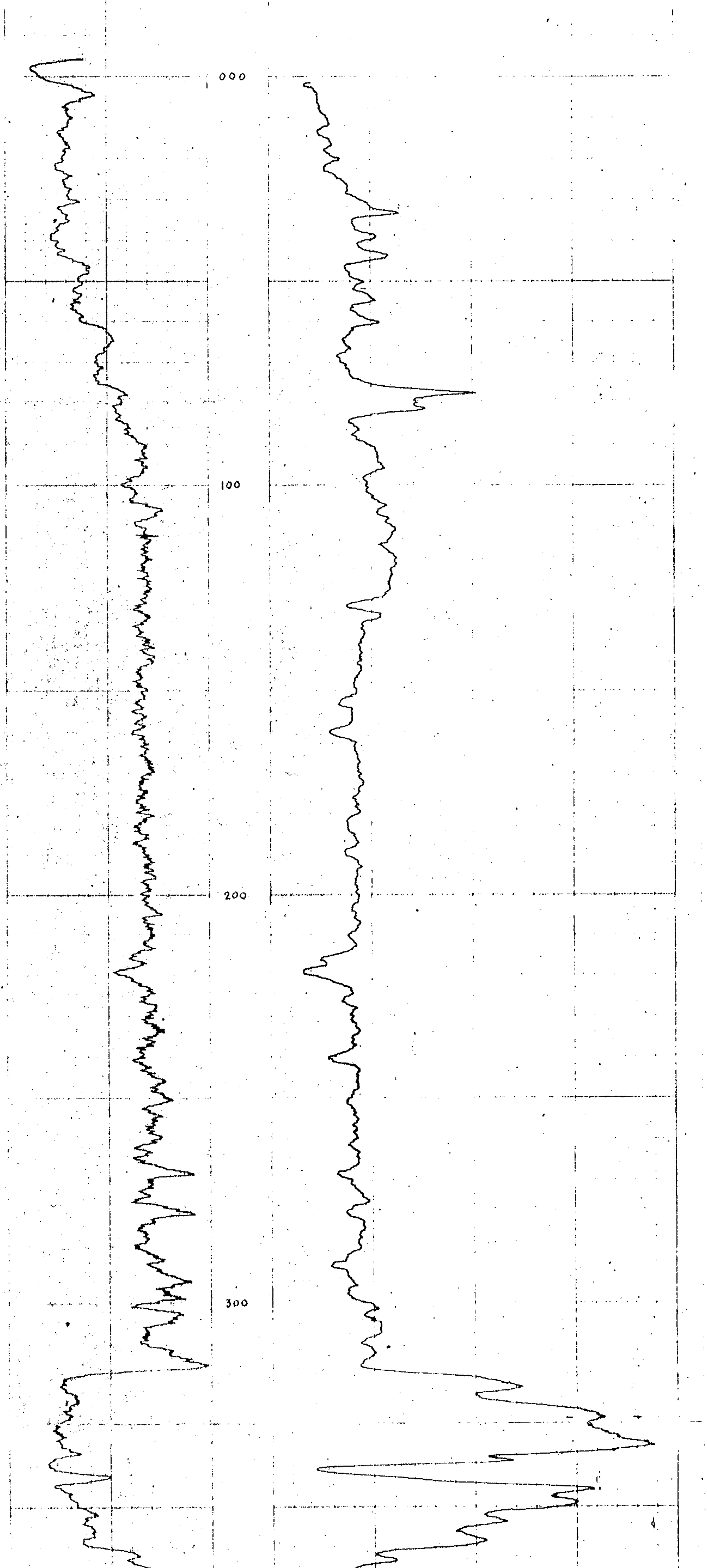
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	340	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	340
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	4 IN.	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	5.5 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU-5	SPACING	
INSTRUMENT TRUCK NO.	SU-5	TYPE	AmBe
TOOL SERIAL NO.	340	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV
ONE	000	529	12	5	100	—	17	3	500	250	250

REMARKS LOGGED THROUGH NQ DRILL ROD

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
17		250
0 85 170		0 2500 5000



ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

FILE NO. PR-MT. SPIEKER E-75(2)A.

LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	NITCUMEN RESOURCES LIMITED
WELL	EB-3
LOCATION	BULLMOOSE CREEK
FIELD	
PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	RIG FLOOR 2 Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR
Other Services:	GRN.
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	SEPT 24 1975
First Reading	516
Last Reading	000
Footage Logged	516
Depth Reached	519
Depth Driller	520
Casing Roke	-
Casing Driller	-
Fluid Type	AIR/QUICK GEL
Liquid Level	-
Min. Diam.	NQ
Operating Time	2 HRS
Truck No.	SU-5
Recorded By	HEDIN
Witnessed By	ROBERTS

MAP No.: 75-06-6

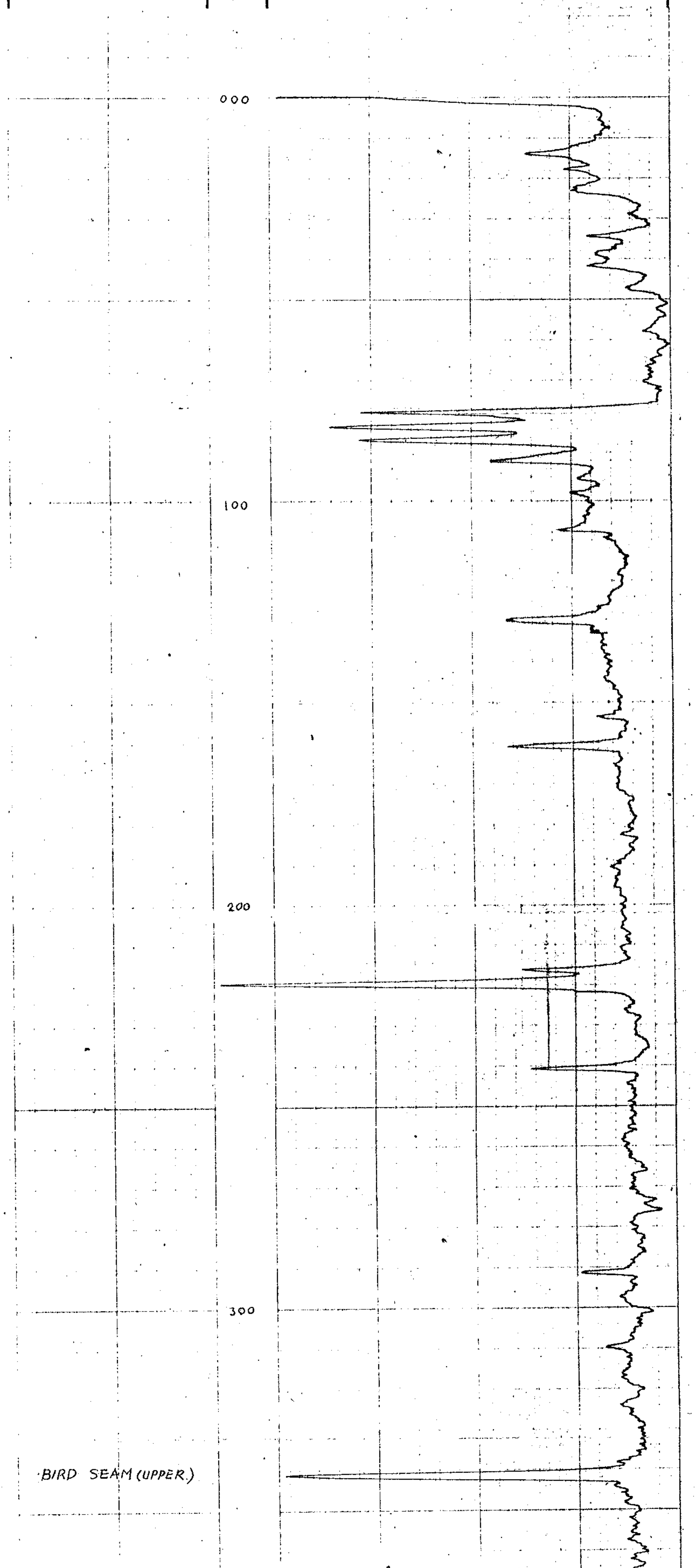
552

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/ DIV
ONE	516	000	12					3	1000	1.8R	23.35

REMARKS LOGGED THROUGH DRILLROD. CONSIDERATION MUST BE GIVEN TO THE POSITION OF THE DRILL ROD WHEN USING THE BULK DENSITY VALUES

TOOL SER # 553

	DEPTHS	CALIPER (DIAMETER – INCHES)
GAMMA RAY API		
		BULK DENSITY (GRAMS/CC)
1.00 1.10	1.20	1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80



f) The total recovery factor of mining and preparation plant yield is subject to the mining method. However, a figure of between 45% and 30% was arbitrarily adapted in this report.

g) The specific gravity of 1.35 was used for clean coal.

Reserves

Total reserves of two coal seams is shown on the Table-1. There are approximately 134 million tons in place of which 30 million tons are conservatively taken as recoverable reserves above 1,500 feet coverline.

Since, so far as the limited exploration has yet shown, some other seams are workable locally within the explored area. Also the B Seam is present in extension to the south of the mapped area. Further exploration would probably increase the reserves substantially.

III-3 Coal Quality

The coal samples obtained from drill holes were tested by Commercial Testing and Engineering Co. in Vancouver. The analytical results are summarized on the Table.

The general description of the coal quality is summarized as follow.

Gates Coals

a) The ash content of the clean coal washed at the specific gravites of 1.5 ranges from 6.8% to 10.0% which is relatively a low figure.

b) The separating yields at the above gravity varies from 95.6% for the A Seam to 49.1% for the C Seam. At a S.G. of 1.6 the yield is 66.5% for the C Seam with 11.31% ash. The dilution was not considered for the testing work as the samples of the C and D Seams in EB-1 were taken from the upper and lower sections separately and the shale partings in the middle of both the seams were excluded. Therefore the yield of total seam thickness including the partings will become lower if mined as one seam.

c) The volatile matter range is 22.9% to 27.6% which corresponds to 24.5% and 30.1% respectively in d.a.f. basis.

d) Total sulphur is less than 0.6% which is reasonably low and the phosphorus ranges 0.02 - 0.09% of which is relatively high.

e) F.S.I. is higher than 6½.

f) Maximum fluidity in Gieseler plastometer ranges from 63 to 291 d.d.p.m. with the exception of 1230 d.d.p.m. of the D Seam in EB-2.

g) The average quality of the B Seam which is the main seam in the area is as follows.

Ash	7.5%
Volatile Matter	24.5%
Fixed Carbon	68.0%
B.T.U.	14,238/lb.
Total Sulphur	0.24%
Phosphorus	0.05%
Free Swelling Index	6½
Max. Fluidity	205 d.d.p.m.
H.G.I.	85

Gething Coals

a) Although the core recoveries of the Gething Coal seams are very poor, it could be said that the analytical results could be fairly representative of seam thickness, because the density and visible loggings indicate no partings and homogenous characteristics in the seam.

b) The ash contents of less than 8% of raw coal and less than 6% of clean coal washed at the specific gravity of 1.6, are very low.

c) The washing yields at the above specific gravity are higher than 94%.

d) The volatile matter content ranges from 18.3 to 22.9% which correspond to 19.3 and 23.4 in d.a.f. basis respectively.

e) So far as analysis show the sulphur content is less than 0.6% which is reasonably low and the phosphorous is less than 0.06% which is relatively high.

Another analysis was made on the outcrop samples for reference which shows equivalent level of sulphur content.

f) The Giesler plastometer test indicates the low fluidity of about 5 d.d.p.m.

SUMMARY OF TEST RESULTS OF DRILL CORE SAMPLES

TABLE-2

SEAM	DRILL NO.	THICKNESS (ft)	RAW COAL ASH (Dry) %	CLEAN COAL (DRY BASIS) S.G.	YIELD %	ASH %	V.M. %	F.C. %	B.T.U. /lb.	T.S. %	P. %	F.S.A.	MAX FL. D.D.P.M.	H.G.I.
Gates D (u)	EB-1	4.75	15.38	1.5	78.3	7.72	24.71	67.57	14,265	0.52	0.05	7½	195	84
D (1)	EB-1	5.40	17.20	1.5	66.4	8.81	25.65	65.54	13,801	0.40	0.07	7½	85	83
D	EB-2	4.90	18.23	1.5	68.2	8.18	27.61	64.21	14,159	0.44	0.08	8	1,230	79
Gates C (u)	EB-1	6.70	27.25	1.5	49.1	7.77	23.73	68.50	14,245	0.42	0.06	7½	71	86
C (1)	EB-1	3.60	24.10	1.5	71.4	6.79	25.67	67.54	14,458	0.57	0.04	8	188	82
C	EB-2	4.90	25.65	1.5	62.3	9.98	25.26	64.76	13,809	0.47	0.05	7	275	83
Gates B	EB-1	15.30	15.80	1.5	76.8	7.17	23.89	68.94	14,339	0.23	0.09	6½	119	88
	EB-2	17.20	10.92	1.6	90.5	7.92	25.04	67.04	14,136	0.25	0.01	6½	291	82
Gates A	EB-1	4.00	12.30	1.5	82.8	6.86	22.86	70.28	14,570	0.48	0.02	7½	63	84
	EB-2	3.60	8.29	1.5	95.6	7.85	23.75	68.40	14,266	0.35	0.02	7½	155	79
Bird (Upper)	EB-1	7.90	7.92	1.6	96.5	5.56	19.17	75.27	14,715	0.53	0.02	4	-	91
Bird (Lower)	EB-1	5.00	5.17	1.6	94.4	3.97	20.60	75.43	14,916	0.41	0.04	8	4.9	88
-	EB-3	8.10	3.73	1.6	95.7	2.12	22.94	74.94	15,191	0.58	0.03	6½	3.0	94
Skeeter	EB-1	3.90	7.23	1.6	94.1	5.29	18.32	76.39	14,761	0.53	0.06	4	4.0	80