

PR-CARBON CREEK.

76(3)C-1

Well logs

(BOOK C-1)

501

9/14

# Widco WELL LOG

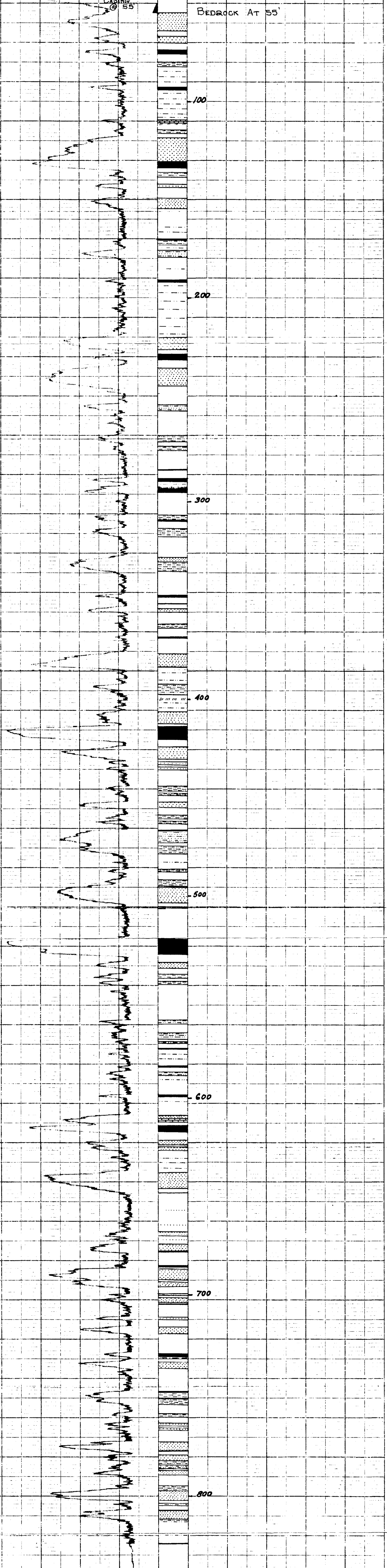
COMPANY: UTAH MINES LTD	COORDINATES: N _____ S _____ ELEVATION: 2533 K.B. _____ G.L. 2533
AREA: CARBON CREEK 9 <sup>th</sup> 501	
WELL: DDH-71-1	
COUNTY: STATE BRITISH COLUMBIA ①	

COMPANY: UTAH MINES LTD  
 WELL: DDH-71-1  
 LOCATION: CARBON CREEK  
 2533

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
7-12-71			Nature		
First Reading			Density		
Last Reading			Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ 'F	@ 'F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	6 1/4"		B.H. Temp.		
Bit Size:					
			Logged by	D. S. FULLERTON	
			Witnessed by		

REMARKS: LOCATION: 1000 E X 200'S of NE corner of sec.

GAMMA RAY LOG  
 SCALE - 0.10 Mc/hr  
 10'/min



DDH-71-1

FO 139

# Widco WELL LOG

COMPANY UTAH MINES LTD  
 AREA CARBON CREEK  
 WELL DDH-71-2  
 COUNTY STATE BRITISH COLUMBIA

9/14 501  
 ②

COORDINATES:  
 N  
 S ELEVATION: 3584  
 D.F.  
 K.B. 3584  
 G.L.

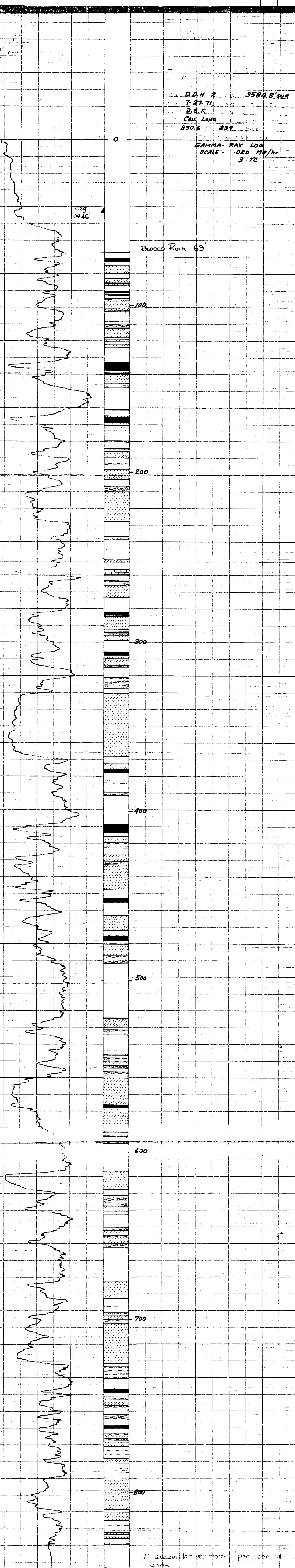
WELL DDH-71-2  
 LOCATION CARBON CREEK

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
7-27-71			Nature		
First Reading	0		Density	@	@
Last Reading	830		Viscosity	@	@
Footage Logged	830'		Resistivity	@	@
Bottom (Driller)			Res. @ BHT	@	@
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	6 1/4"		B.H. Temp.		
Bit Size:			Logged by	D.S. FULLERTON	
			Witnessed by		

REMARKS: LOCATION: 1300 S X 100' W of NE corner

GAMMA RAY LOG  
 SCALE - .020 MR/hr  
 3 TC

71-2



10139

# Widco

# WELL LOG

COMPANY UTAH MINES LTD.  
AREA CARBON CREEK  
WELL DDH-71-3

9/4 501  
STATE BRITISH COLUMBIA ③

COORDINATES:  
N \_\_\_\_\_  
S \_\_\_\_\_  
ELEVATION: 2781  
D.F. \_\_\_\_\_  
K.B. \_\_\_\_\_  
G.L. 2781

COMPANY UTAH MINES LTD.  
WELL DDH-71-3  
LOCATION CARBON CREEK

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date 8-6-71			Nature		
First Reading 0			Density	@ °F	@ °F
Last Reading 887			Viscosity	@ °F	@ °F
Footage Logged 837'			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 4 1/2"			B.H. Temp.		
Bit Size					
Bit Size					
			Logged by D.O. BIRKHOLZ		
			Witnessed by D.S. FULLERTON		

REMARKS LOCATION: 300'S X 150'W of NE corner

GAMMA RAY LOG  
SCALE - .010 MR/hr  
3 TC

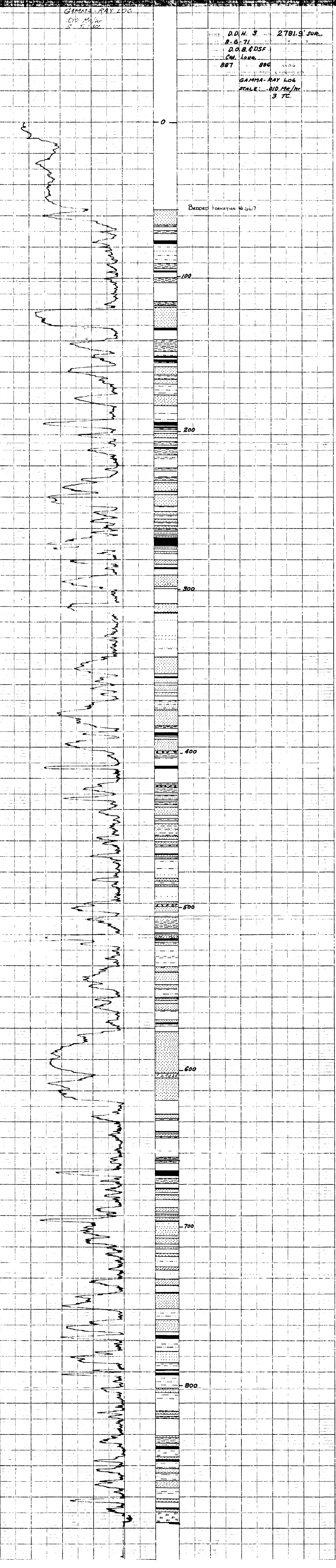
10139

71-3

GAMMA-RAY LOG  
.010 MR/hr  
3 TC

D.D.H. 3 2781.9 SUR.  
8-6-71  
D.O. B. & D.S.F.  
C.M. LONG  
887 896

GAMMA-RAY LOG  
SCALE: .010 MR/hr  
3 TC



From 76(3)-1  
7-1 & 73-29

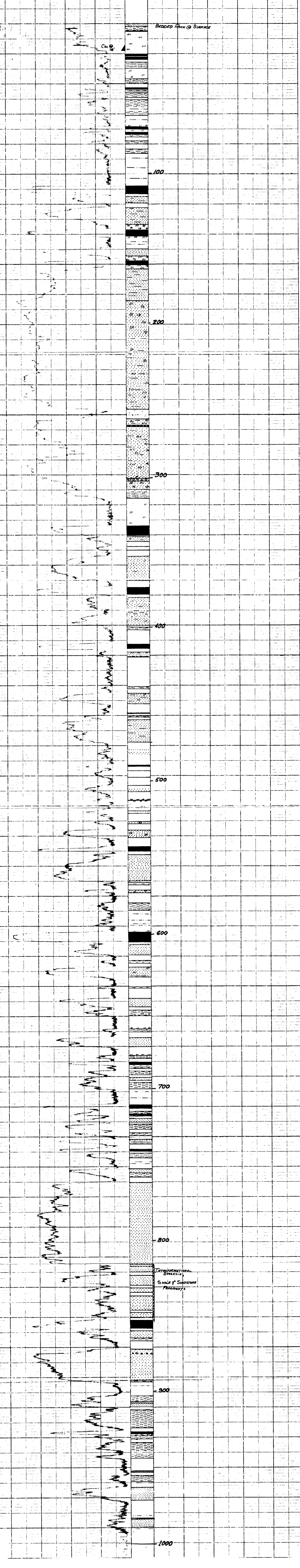
<b>Widco</b>		<b>WELL LOG</b>	
COMPANY	UTAH MINES LTD	COORDINATES:	
AREA	CARBON CREEK 9/14 501	N	
WELL	DDH-71-4	S	
COUNTY	STATE BRITISH COLUMBIA 4	ELEVATION:	4094
		D.F.	
		K.B.	
		G.I.	4094
DATE	8-16-71	Nature	
First Reading	0	Density	
Last Reading	996	Viscosity	@ °F @ °F
Footage Logged	996'	Res. @ BHT	@ °F @ °F
Bottom (Driller)		pH	
Casing (From Log)		Circ. Temp.	
Casing (Driller)		B.H. Temp.	
Casing Size	4 1/2"		
Bit Size:			
Bit Size:			
		Logged by	M. STEWART
		Witnessed by	D.O. BIRKHOFF
REMARKS: LOCATION: 300 N X 50' W of SE corner			

H- CARBON CR. 76(3)-1  
71-4

GAMMA RAY LOG  
SCALE - .02 MR/hr  
3 TC

DDH # 4  
.01 Scale

D.D.H. # 4 Elev. 4094.6' SURF  
8-16-71  
M.S.G. DOB  
C.M. LONG  
996.1 ... 1003



FO 139

71-5  
 Pt. Carbon Cr. 76(3)C-1

# Widco WELL LOG

COMPANY UTAH MINES LTD.

AREA CARBON CREEK 9/14 501

WELL DDH-71-5

COUNTY STATE BRITISH COLUMBIA ⑤

COORDINATES:

N  
 S  
 ELEVATION: 3501  
 D.F.  
 K.B.  
 G.L. 3501

COMPANY UTAH MINES LTD.  
 WELL DDH-71-5  
 LOCATION CARBON CREEK

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	8-25-71		Nature		
First Reading	0		Density		
Last Reading	657		Viscosity	@ °F	@ °F
Footage Logged	657'		Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4"		B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	D.O. BIRKHOLZ	
			Witnessed by	D.S. FULLERTON	

REMARKS LOCATION: Approximately 700' N and 1000' W of SE corner

GAMMA RAY LOG  
 SCALE - .010 MR/hr  
 3 TC

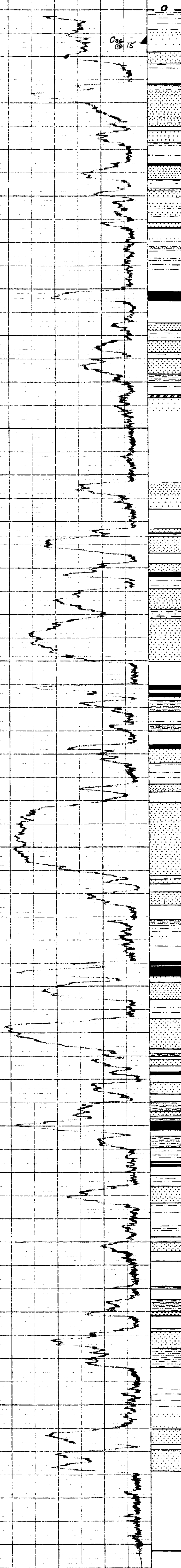
\* Reg. U.S. Pat. Off.

FOI 30

DDH # 5

D.D.H. 5 3501.9' SUR.  
 8-25-71  
 DSF & DOB  
 CAN. LOGS  
 657 681

GAMMA-RAY LOG  
 SCALE - .010 MR/hr  
 3 TC



BEDDED FORMATION AT SURFACE

T.D. DEEPER 657'

71-6

# Widco WELL LOG

COMPANY: UTAH MINES LTD.  
 WELL: DDH-71-6  
 LOCATION: CARBON CREEK

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK **9/14 501**  
 WELL: DDH-71-6  
 COUNTY: STATE: BRITISH COLUMBIA **(6)**

COORDINATES:  
 N: \_\_\_\_\_  
 S: \_\_\_\_\_  
 ELEVATION: 4287  
 D.F.: \_\_\_\_\_  
 K.B.: \_\_\_\_\_  
 G.L.: 4287

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	9-1-71		Nature		
First Reading	0		Density		
Last Reading	677		Viscosity	@ 'F	@ 'F
Footage Logged	677'		Resistivity	@ 'F	@ 'F
Bottom (Driller)			Res. @ BHT	@ 'F	@ 'F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4 1/2"		B.H. Temp.		
Bit Size:					
Bit Size:					

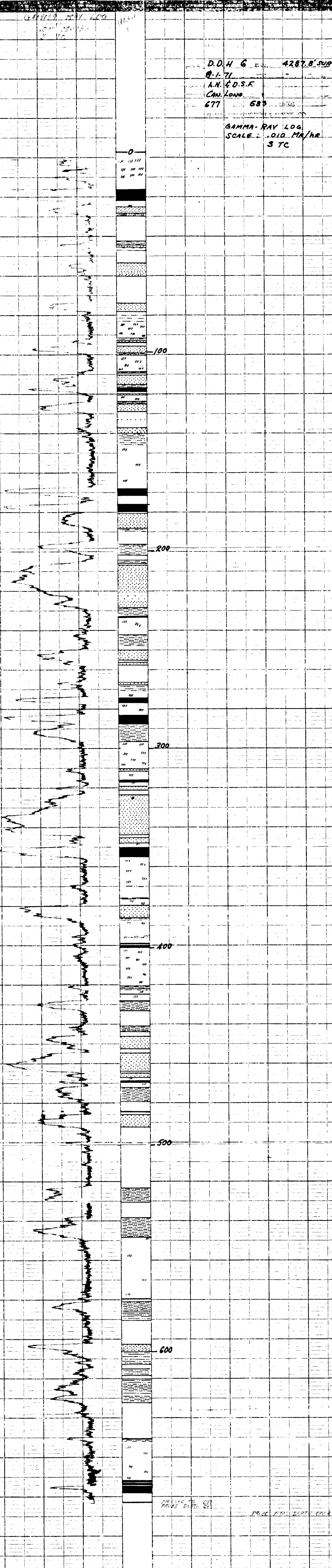
Logged by: A. NEFF  
 Witnessed by: D.S. FULLERTON

REMARKS: LOCATION: Approximately 2400' N X 25' E of SW corner

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
 SCALE - .010 MR/hr  
 3 TC

FOI 138



71-7

# Widco WELL LOG

COMPANY: UTAH MINES LTD.  
 WELL: DDH-71-7  
 LOCATION: CARBON CREEK

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK 9/14 501  
 WELL: DDH-71-7  
 COUNTY: STATE: BRITISH COLUMBIA 7

COORDINATES:  
 N:  
 S:  
 ELEVATION: 4387  
 D.F.:  
 K.B.:  
 G.L.: 4387

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
9-10-71			Nature		
First Reading			Density	@ °F	@ °F
Last Reading			Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 4" & 7"			B.H. Temp.		
Bit Size:					
Bit Size:					

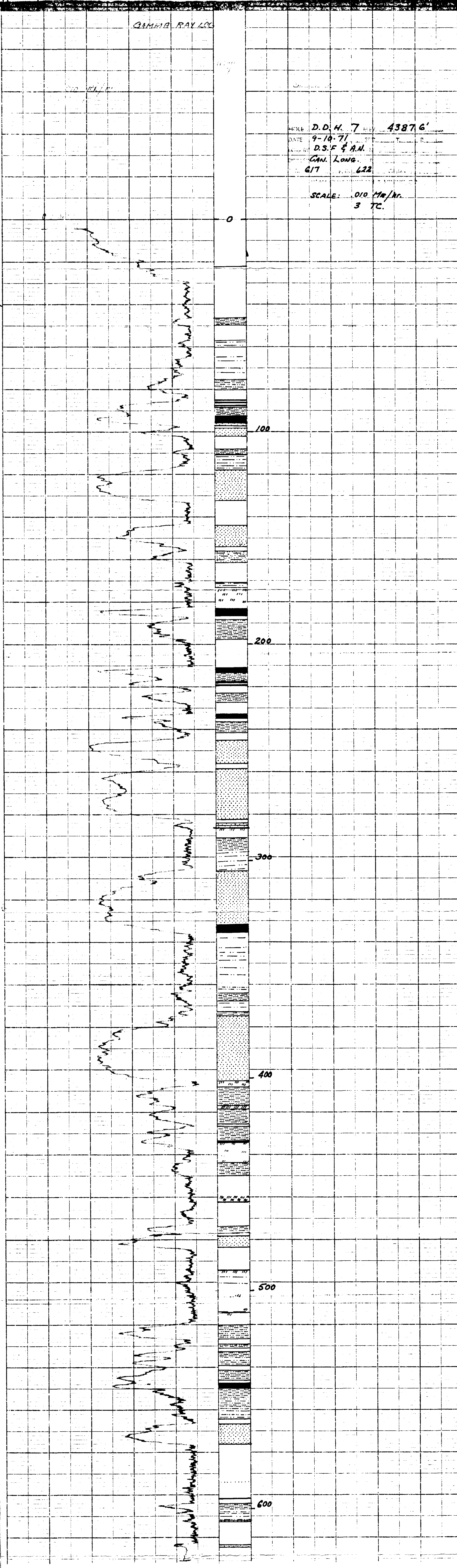
Logged by: A. NEFF  
 Witnessed by: D. S. FULLERTON

REMARKS: LOCATION: 1400' E & 2000' S of NW corner

Reg. U.S. Pat. Off.

GAMMA RAY LOG  
 SCALE: 1MR/hr .010  
 3 m'

FO 138





# Widco WELL LOG

COMPANY: UTAH MINES LTD.  
 WELL: DDH-71-8  
 LOCATION: CARBON CREEK

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK  
 WELL: DDH-71-8  
 COUNTY: STATE BRITISH COLUMBIA

COORDINATES:  
 N: \_\_\_\_\_  
 S: \_\_\_\_\_  
 ELEVATION: 3557  
 D.F.: \_\_\_\_\_  
 K.B.: \_\_\_\_\_  
 G.I.: 3557

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	9-14-71				
First Reading	0		Nature	@ °F	@ °F
Last Reading	737		Viscosity	@ °F	@ °F
Footage Logged	737'		Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4"		B.H. Temp.		
Bit Size:					
Bit Size:			Logged by	A. NEFF	
			Witnessed by	D.S. FULLERTON	

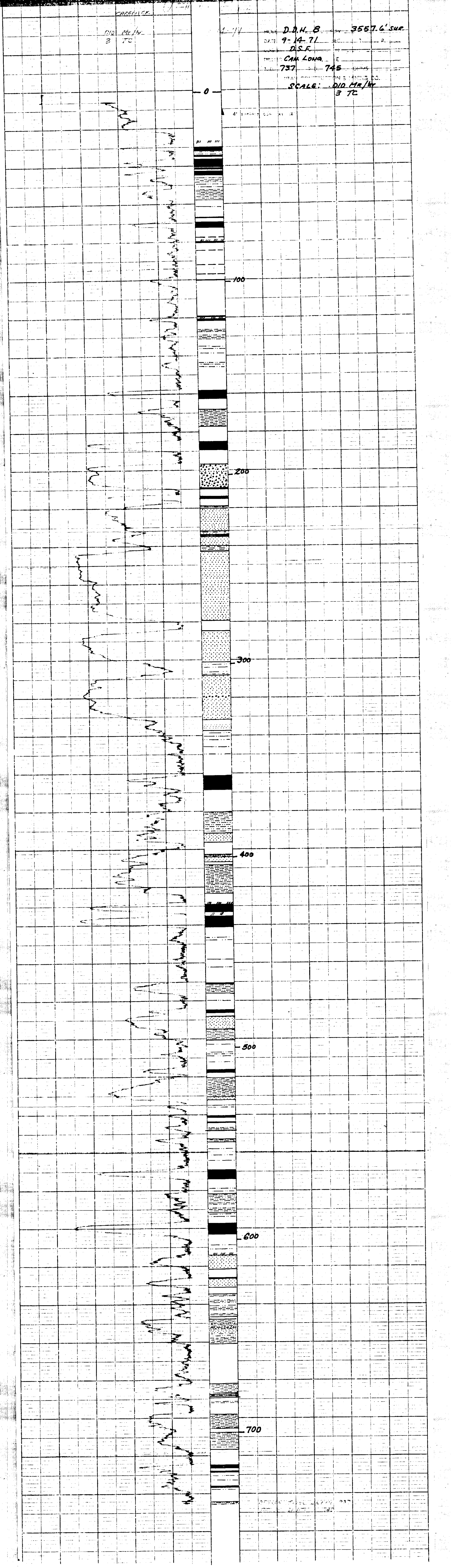
REMARKS: LOCATION, 200' N X 200' W of SE corner

GAMMA RAY LOG  
 SCALE - .010 MR/hr  
 3 TC

60139

7-1-8

Carbon Creek 76310-1



71-9

# Widco WELL LOG

COMPANY UTAH MINES LTD.  
WELL DDH-71-9  
LOCATION CARBON CREEK

COMPANY UTAH MINES LTD.  
AREA CARBON CREEK 9/14 501  
WELL DDH-71-9  
COUNTY STATE BRITISH COLUMBIA 9

COORDINATES:  
N.  
S ELEVATION: 2938  
D.F.  
K.B.  
G.L. 2938

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
9-19-71			Nature		
First Reading 0			Density		
Last Reading 527			Viscosity @ °F	@ °F	@ °F
Footage Logged 527'			Resistivity @ °F	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 7"			B.H. Temp.		
Bit Size:					
Bit Size:					

REMARKS LOCATION: 2300' W X 1900' N of SE corner

\* Reg. U.S. Pat. Off.

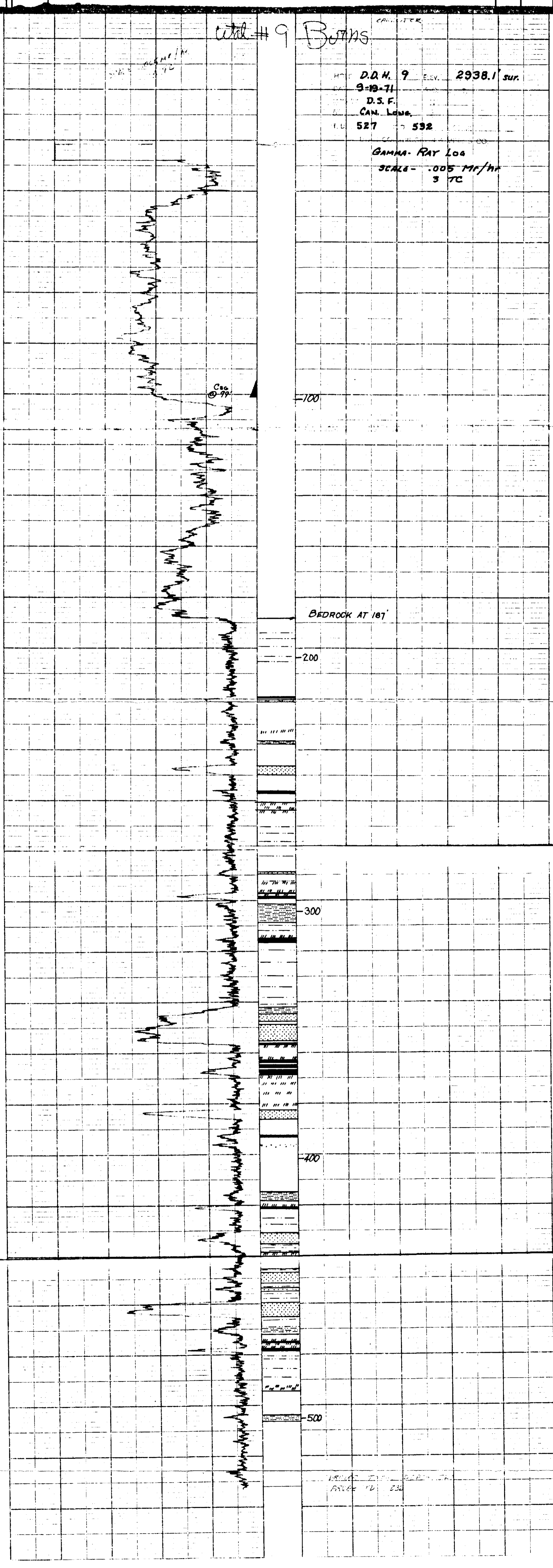
GAMMA RAY LOG  
SCALE - .005 MR/hr  
3 TC

FO-139

well # 9 Burns

D.D.H. 9 ELEV. 2938.1 sur.  
9-19-71  
D.S.F.  
CAN. LOGS  
527 592

GAMMA-RAY LOG  
SCALE - .005 MR/hr  
3 TC



72-10

# Widco WELL LOG

COMPANY UTAH MINES LTD.  
WELL DDH-72-10  
LOCATION CARBON CREEK

COMPANY UTAH MINES LTD.  
AREA CARBON CREEK 9/4 501  
WELL DDH-72-10  
COUNTY STATE BRITISH COLUMBIA 10

COORDINATES:  
N  
S  
ELEVATION: 3302  
D.F.  
K.B.  
G.L. 3302

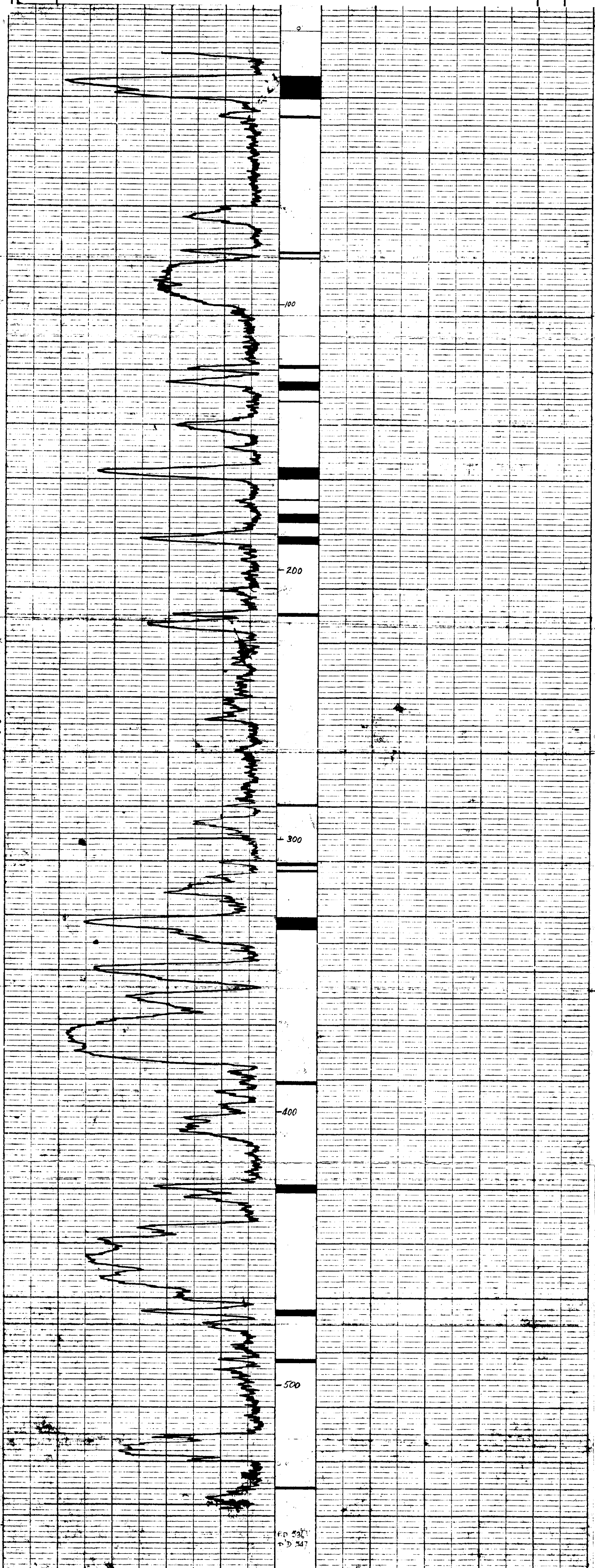
Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
6-11-72			Nature		
First Reading 0			Density		
Last Reading 547			Viscosity @ °F	@ °F	@ °F
Footage Logged 547'			Resistivity @ °F	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 4 1/2"			B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	D.O. BIRKHOLZ	
			Witnessed by		

REMARKS LOCATION: 354,000 N X 61,100 E

GAMMA RAY LOG  
SCALE - .010 MR/hr  
3 1/2

\* Reg. U.S. Pat. Off.

FO. 139



547'

11-2L

# Widco WELL LOG

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK 9/14 501  
 WELL: DDH-72-11  
 COUNTY: STATE BRITISH COLUMBIA

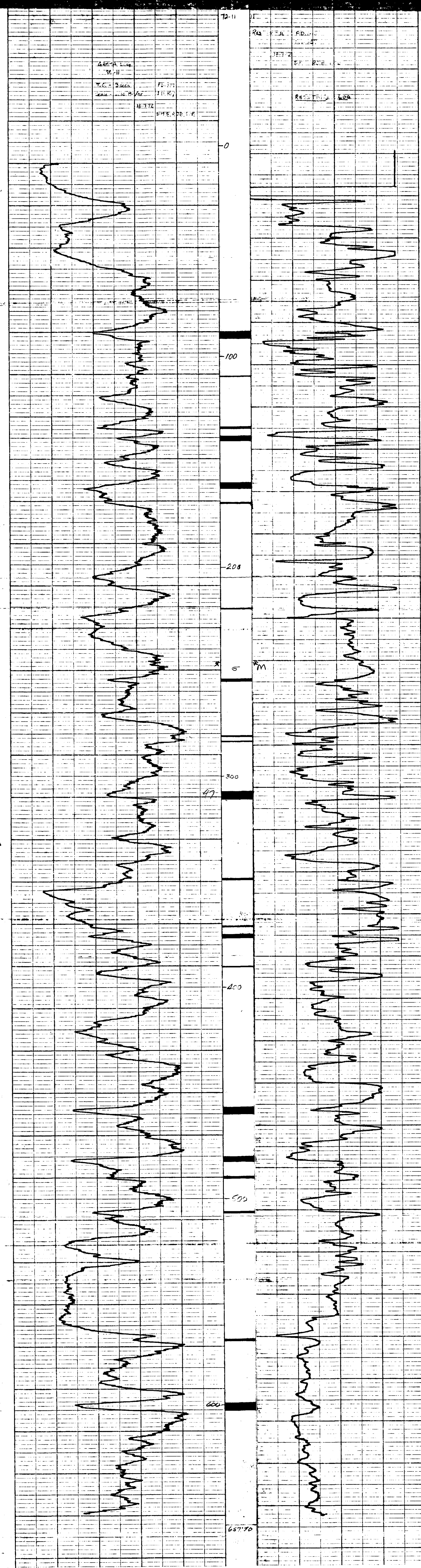
COORDINATES:  
 N: \_\_\_\_\_  
 S: \_\_\_\_\_  
 ELEVATION: 4541  
 D.F.: \_\_\_\_\_  
 K.B.: \_\_\_\_\_  
 G.L.: 4541

LOCATION: CARBON CREEK  
 COMPANY: UTAH MINES LTD.  
 WELL: DDH-72-11

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
7-18-72					
First Reading			Nature		
0			Density		
Last Reading			Viscosity	@	°F
657'			Resistivity	@	°F
Bottom (Driller)			Res. @ BHT	@	°F
Casing (From Log)			pH	@	°F
Casing (Driller)			Circ. Temp.		
Casing Size 4 1/2"			B.H. Temp.		
Bit Size:			Logged by	D.M. STEWART	
Bit Size:			Witnessed by		

REMARKS: LOCATION: 352,800 N X 53,650E

GAMMA RAY LOG  
 SCALE: 1.010 1/4" hr  
 3 TC



WIDCO DIVISION OF GEARHART OWEN INDUSTRIES, FORT WORTH, TEXAS  
 CHART NO. 102  
 MADE IN U.S.A.

72-12

# Widco\* WELL LOG

COMPANY: UTAH MINES LTD.  
 WELL: DDH-72-12  
 LOCATION: CARBON CREEK

AREA: CARBON CREEK 9/4 501  
 WELL: DDH-72-12  
 COUNTY: STATE: BRITISH COLUMBIA (2)

COORDINATES:  
 N: \_\_\_\_\_  
 S: \_\_\_\_\_  
 ELEVATION: 3839  
 D.F.: \_\_\_\_\_  
 K.B.: \_\_\_\_\_  
 G.L.: 3839

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
6-22-72			Nature		
First Reading			Density	@ °F	@ °F
Last Reading			Viscosity	@ °F	@ °F
Footage Logged			Res. @ BHT	@ °F	@ °F
Bottom (Driller)			pH		
Casing (From Log)			Circ. Temp.		
Casing (Driller)			B.H. Temp.		
Casing Size	4 1/2"		Logged by	D. M. STEWART	
Bit Size:			Witnessed by		
Bit Size:					

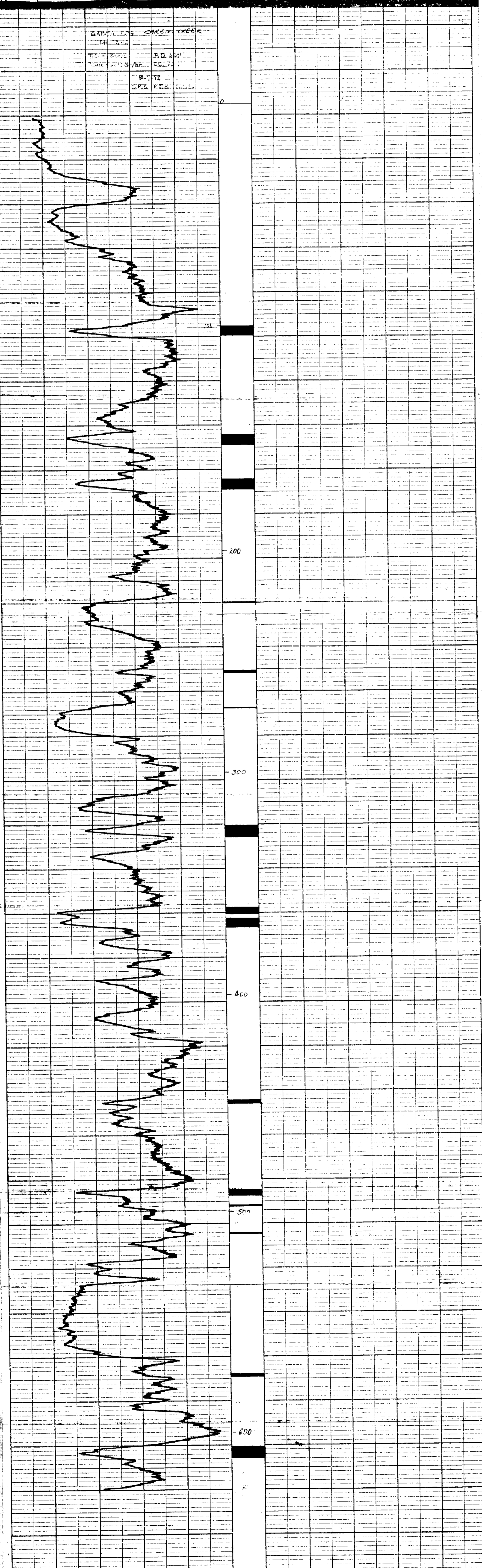
REMARKS: LOCATION: 351,300 N X 57,600 E

SCALE: .010 MB/hr  
 3 TC

Reg. U.S. Pat. Off.

FO 139

GARMA LOG CARBON CREEK  
 DDH-72-12  
 DATE: 6-22-72  
 TIME: 10:00 AM



72-13

# Widco\* WELL LOG

COMPANY UTAH MINES LTD.  
WELL DDH-72-13  
LOCATION CARBON CREEK

COMPANY UTAH MINES LTD.  
AREA CARBON CREEK **9/14 501**  
WELL DDH-72-13  
COUNTY \_\_\_\_\_ STATE BRITISH COLUMBIA **(13)**

COORDINATES:  
N \_\_\_\_\_  
S \_\_\_\_\_  
ELEVATION:  
D.F. \_\_\_\_\_  
K.B. \_\_\_\_\_  
G.L. \_\_\_\_\_

CC-CR-72-13-1

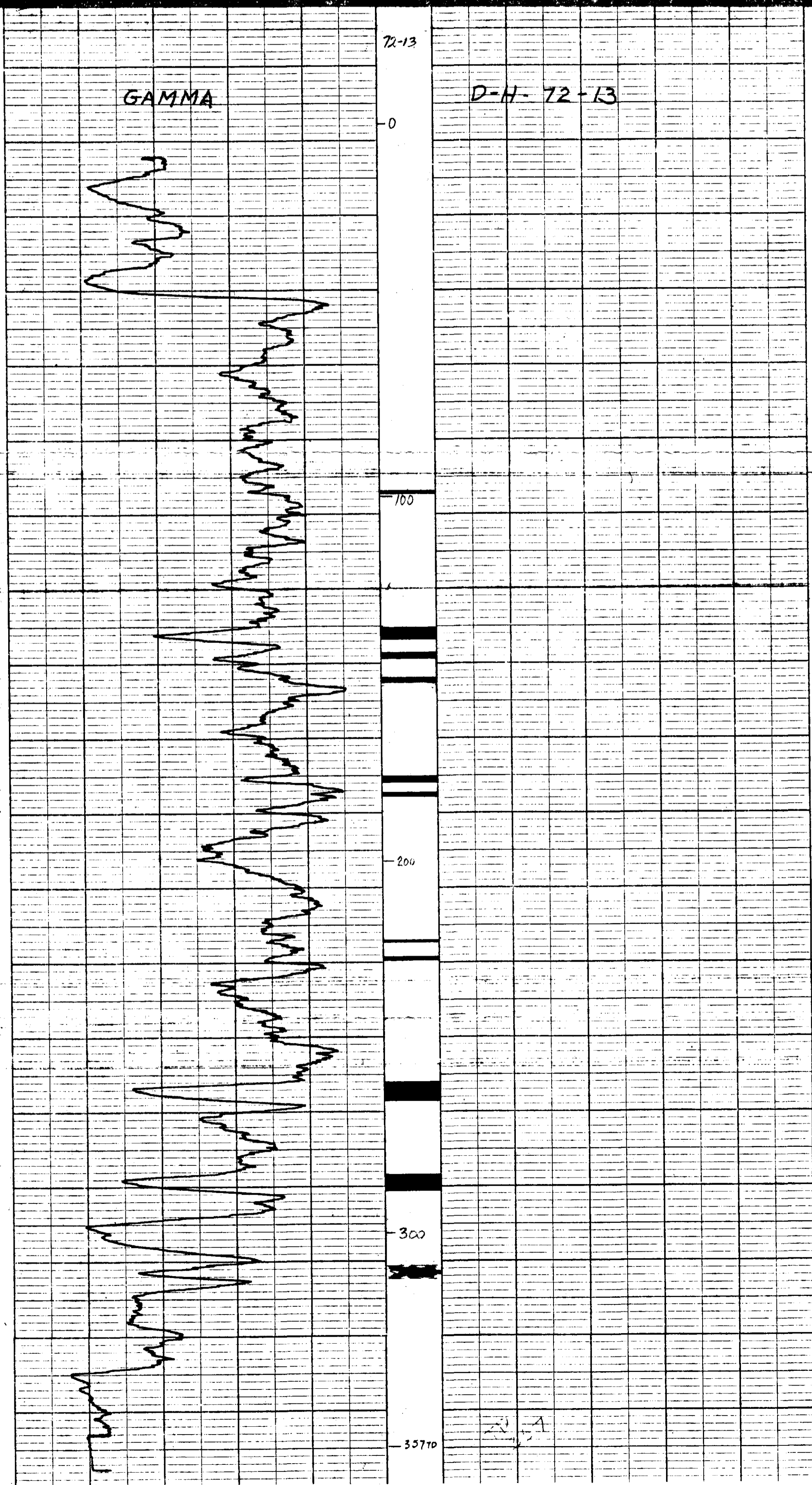
	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	6-23-72		Nature		
First Reading	0		Density		
Last Reading	357		Viscosity	@ °F	@ °F
Footage Logged	357'		Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4 1/2"		B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	D. M. STEWART	
			Witnessed by		

REMARKS LOCATION: 349,000 N X 60,000 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
SCALE -

FO-139



72-14

# Widco WELL LOG

COMPANY UTAH MINES LTD.

AREA CARBON CREEK

WELL DDH-72-14

COUNTY STATE BRITISH COLUMBIA

9/14 501

COORDINATES:

N 5

ELEVATION: 2837

D.F.

G.I. 2337

COMPANY UTAH MINES LTD.  
WELL DDH-72-14  
LOCATION CARBON CREEK

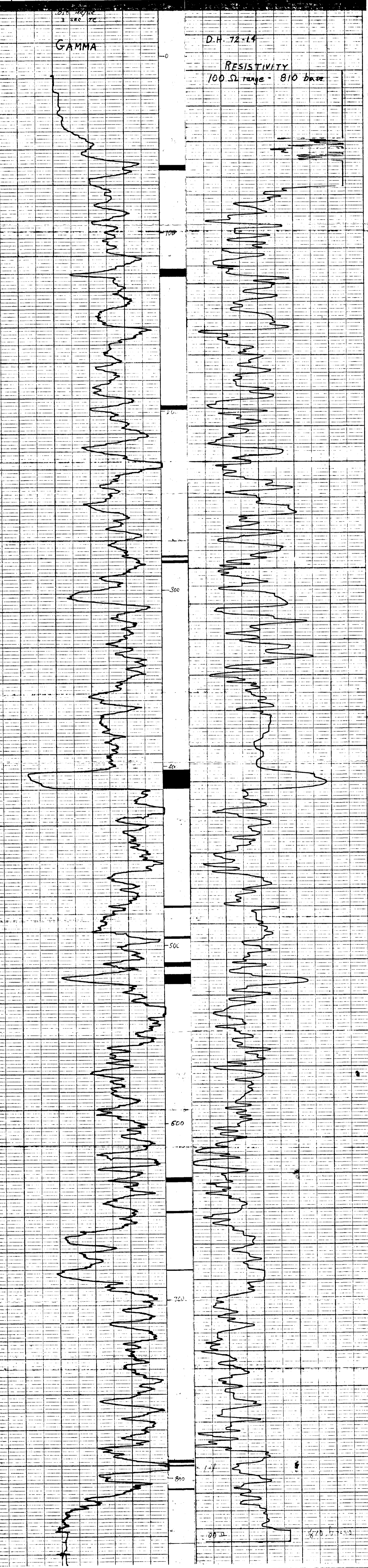
Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
6-26-72					
First Reading			Nature		
0			Density		
Last Reading			Viscosity	@ °F	@ °F
837			Resistivity	@ °F	@ °F
Footage Logged			Res. @ BHT	@ °F	@ °F
837'			pH		
Bottom (Driller)			Circ. Temp.		
Casing (From Log)			B.H. Temp.		
Casing (Driller)					
Casing Size 7" & 4 1/2"					
Bit Size:					
			Logged by	C. L. DAVIS	
			Witnessed by	D. M. STEWART	

REMARKS LOCATION: 369,000 N X 55,300

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
SCALE - .010 MR/hr  
3 TC

10139



4/20/72

51-2-15

# Widco <sup>\*</sup> WELL LOG

COMPANY: UTAH MINES LTD  
 AREA: CARBON CREEK *9/14 501*  
 WELL: DDII-72-15  
 COUNTY: STATE BRITISH COLUMBIA *(15)*

COORDINATES:  
 N  
 S  
 ELEVATION: 3640  
 D.F.  
 K.B.  
 G.L.: 3640

COMPANY: UTAH MINES LTD  
 WELL: DDII-72-15  
 LOCATION: CARBON CREEK

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
7-8-72			Nature		
First Reading			Density		
Last Reading			Viscosity	@ °F	@ °F
Footage Logged			Res. @ BHT	@ °F	@ °F
Bottom (Driller)			pH		
Casing (From Log)			Circ. Temp.		
Casing (Driller)			B.H. Temp.		
Casing Size	4 1/2"				
Bit Size:					
Bit Size:					

Logged by: C. L. DAVIS  
 Witnessed by: D. M. STEWART

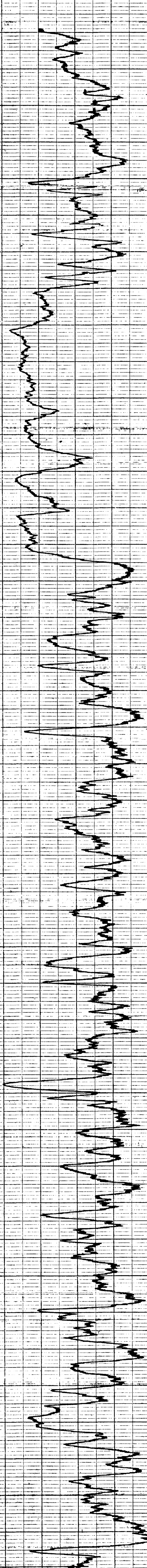
REMARKS: LOCATION: 346,000 1 X 60,000 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
 SCALE - 110 MR/HR  
 1 TC

FO 139

DDII-72-15



*Gamma log*  
 Selling: 3 Sec. TC.  
 210 MR/HR.  
 Prod. July 8, 1972.  
 D.D. 864.5'  
 R.D. 858'  
 217.3 A.G.R.

0  
 100  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 864 TD



72-16

# Widco \* WELL LOG

COMPANY UTAH MINES LTD.

AREA CARBON CREEK

WELL DDH-72-16

COUNTY STATE BRITISH COLUMBIA

9/14 501

COORDINATES:

N

S

ELEVATION:

D.F.

K.B.

G.I.

COMPANY UTAH MINES LTD.

WELL DDH-72-16

LOCATION CARBON CREEK

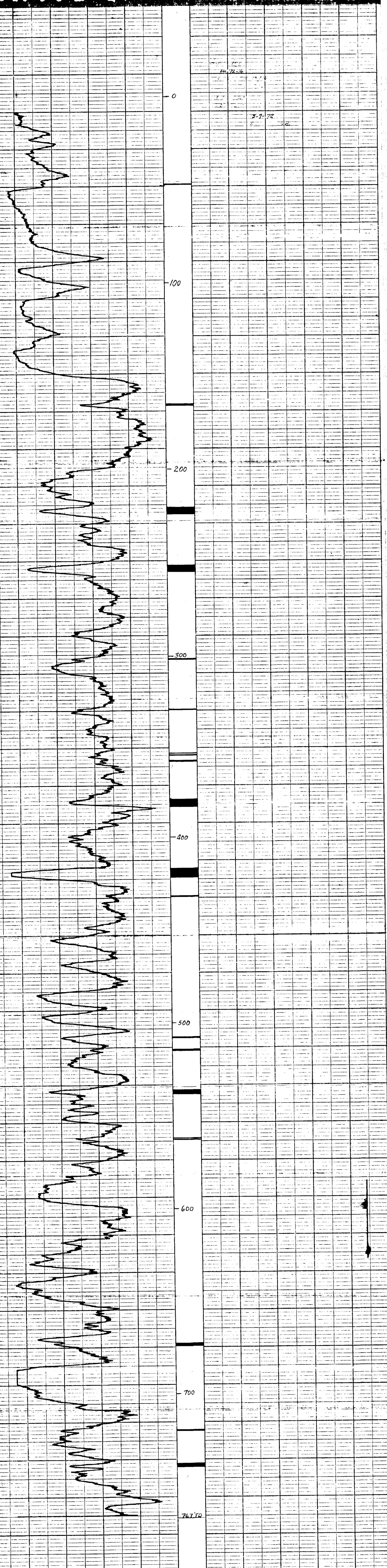
	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	7-9-72		Nature		
First Reading	0		Density		
Last Reading	767		Viscosity	@ °F	@ °F
Footage Logged	767'		Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4 1/2"		8.H. Temp.		
Bit Size:					
			Logged by	R.G. BERDUSO	
			Witnessed by	D.M. STEWART	

REMARKS LOCATION: 347,500 N X 63,000 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
SCALE - .010 MR/Hr  
3 TC

FO 150



PR CARBON CR 76 (S) 0-1

72-11

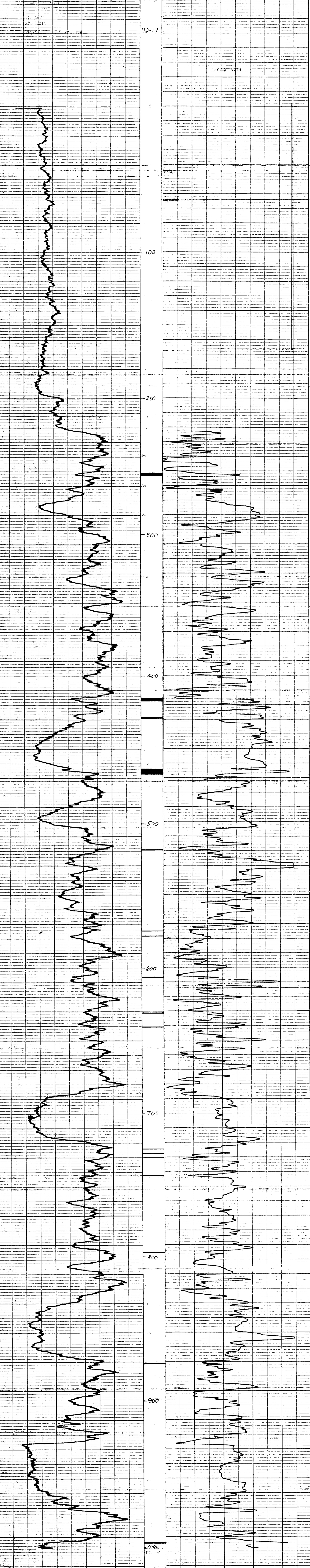
# Widco WELL LOG

COMPANY: UTAH MINES LTD.		COORDINATES:	
AREA: CARBON CREEK	WELL: DDH-72-17	N: 501	S: 2823
WELL: DDH-72-17	STATE: BRITISH COLUMBIA	ELEVATION: 2823	D.F.:
COUNTY:		K.B.:	G.I.:
		2823	

Date: 7-16-72	Run No. 1:	Run No. 2:	MUD:	Run No. 1:	Run No. 2:
First Reading: 0			Nature:		
Last Reading:			Density:		
Footage Logged: 1,000			Viscosity:	@ "F	@ "F
Bottom (Driller):			Resistivity:	@ "F	@ "F
Casing (From Log):			Res. @ BHT:	@ "F	@ "F
Casing (Driller):			pH:		
Casing Size: 4 1/2"			Circ. Temp.:		
Bit Size:			B.H. Temp.:		
			Logged by:	D. M. STENAPT	
			Witnessed by:		

REMARKS: LOCATION: 370,900 N X 56,800 E

GAMMA RAY LOG  
SCALE - 010 MR/HR  
3 MC



FO 159

# Widco WELL LOG

COMPANY UTAH MINES LTD.  
 AREA CARBON CREEK  
 WELL DDH-72-18

9/14 501 (B)

COORDINATES:  
 N \_\_\_\_\_  
 S \_\_\_\_\_  
 ELEVATION:  
 D.F. \_\_\_\_\_  
 K.B. \_\_\_\_\_  
 G.L. \_\_\_\_\_

COMPANY UTAH MINES LTD.  
 WELL DDH-72-18  
 LOCATION CARBON CREEK

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
7-28-72			Nature		
First Reading 0			Density	@ °F	@ °F
Last Reading 627			Viscosity	@ °F	@ °F
Footage Logged 627'			Res. @ BHT	@ °F	@ °F
Bottom (Driller)			pH		
Casing (From Log)			Circ. Temp.		
Casing (Driller)			B.H. Temp.		
Casing Size 4 1/2"					
Bit Size					
Bit Size					

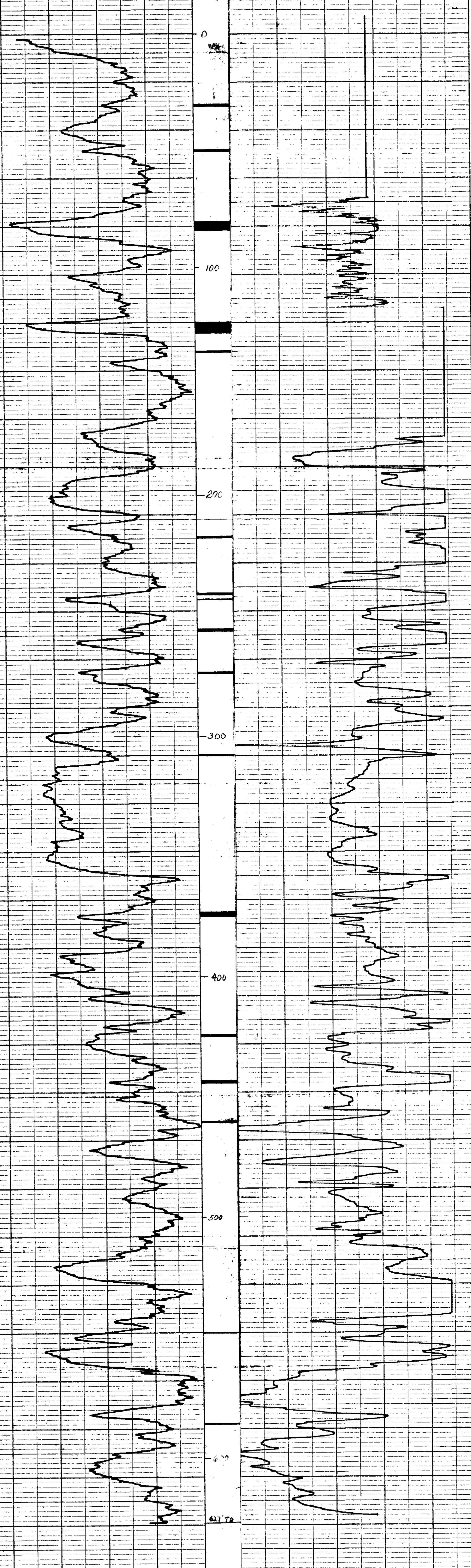
Logged by D. M. STEWART  
 Witnessed by \_\_\_\_\_

REMARKS LOCATION: 344,200 N x 65,300 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
 SCALE - .010 MR/Hr  
 3 SECS. TC

GAMMA LOG  
 DDH-72-18  
 SCALE - .010 MR/Hr  
 3 SECS. TC  
 31-7-72



72-18

FO.139

# Widco\* WELL LOG

COMPANY: UTAH MINES LTD.  
 WELL: DDH-72-19  
 LOCATION: CARBON CREEK

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK **9/4 501**  
 WELL: DDH-72-19  
 COUNTY: \_\_\_\_\_ STATE: BRITISH COLUMBIA **(19)**

COORDINATES: \_\_\_\_\_  
 N \_\_\_\_\_  
 S \_\_\_\_\_  
 ELEVATION: \_\_\_\_\_  
 D.F. \_\_\_\_\_  
 K.B. \_\_\_\_\_  
 G.I. \_\_\_\_\_

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	8-6-72		Nature		
First Reading	0		Density		
Last Reading	527		Viscosity	@ °F	@ °F
Footage Logged	527'		Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size	4 1/2"		B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	R.J. BERDUSEO	
			Witnessed by	D.M. STEWART	

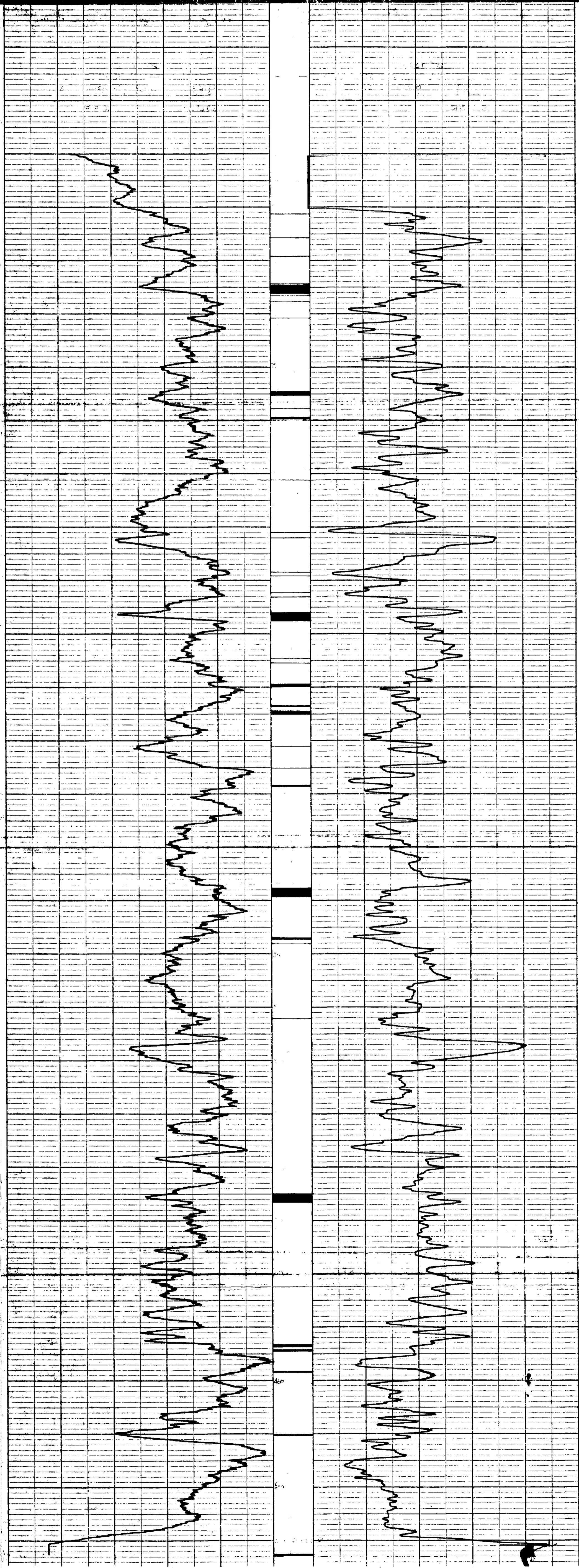
REMARKS: LOCATION: 322,800 N X 33,000 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOC  
 SCALE - .010 MR/Hr  
 2 TC

FO-139

R. CARBON CREEK 76(5)2-1  
72-19



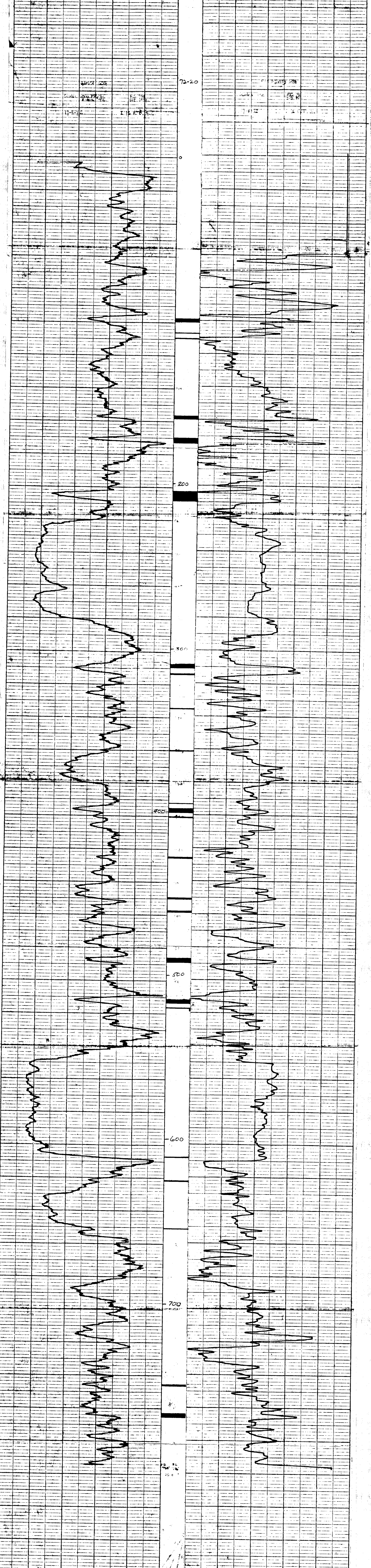
# Widco WELL LOG

COMPANY	UTAH MINES LTD.	COORDINATES:	
AREA	CARBON CREEK 9/4 501	N.	
WELL	DDH-72-20	S	
COUNTY	STATE BRITISH COLUMBIA 20	ELEVATION:	
		D.F.	
		K.B.	
		G.L.	

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
8-9-72					
First Reading			Nature		
Last Reading			Density		
Footage Logged			Viscosity	@ °F	@ °F
Bottom (Driller)			Resistivity	@ °F	@ °F
Casing (From Log)			Res. @ BHT	@ °F	@ °F
Casing (Driller)			pH		
Casing Size	4 1/2"		Circ. Temp.		
Bit Size:			B.H. Temp.		
Bit Size:			Logged by	D.M. STEWART	
			Witnessed by		

REMARKS LOCATION: 320,400 N X 90,600 E

GAMMA RAY LOG  
SCALE - .010 MP/ft  
3 FC



Dr. Carbon Cr. 76131 E-1  
72-20

# Widco<sup>\*</sup> WELL LOG

COMPANY UTAH MINES LTD.

AREA CARBON CREEK 9/14 501

WELL DDH-72-21

COUNTY STATE BRITISH COLUMBIA (2)

COORDINATES:

N  
S  
ELEVATION:  
D.F.  
K.B.  
G.L.

COMPANY UTAH MINES LTD.  
WELL DDH-72-21  
LOCATION CARBON CREEK

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
8-18-72			Nature		
First Reading 0			Density		
Last Reading 491			Viscosity @ °F	@ °F	@ °F
Footage Logged 491'			Resistivity @	@	@
Bottom (Driller)			Res. @ BHT	@	@
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 4 1/2"			B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by	D. M. STEWART	
			Witnessed by		

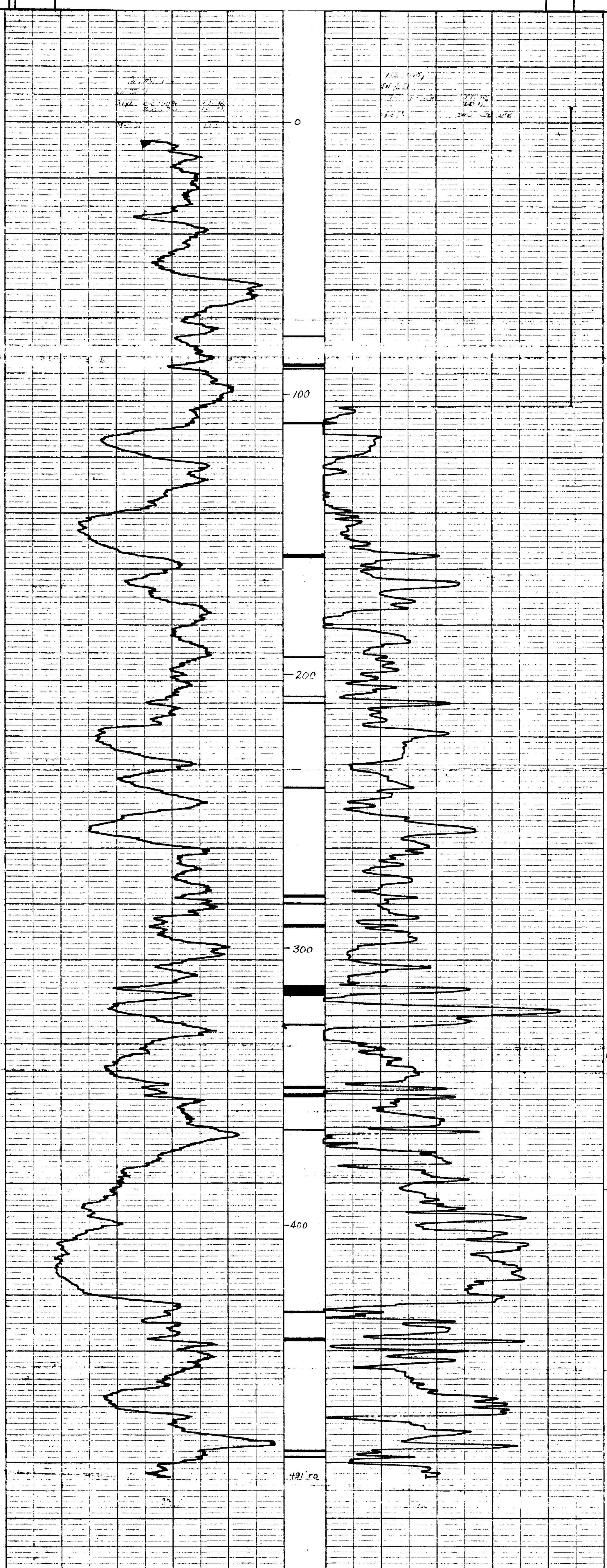
REMARKS LOCATION: 316,300 N X 90,100 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
SCALE - .010 MR/hr  
3 TC

FO.139

Dr. Carbon Cr. 72-21-1



# Widco WELL LOG

COMPANY UTAH MINES LTD.  
 AREA CARBON CREEK 9/14 501  
 WELL DDH-72-21  
 COUNTY \_\_\_\_\_ STATE BRITISH COLUMBIA (22)

COORDINATES:  
 N \_\_\_\_\_  
 S \_\_\_\_\_  
 ELEVATION: \_\_\_\_\_  
 D.F. \_\_\_\_\_  
 K.B. \_\_\_\_\_  
 G.L. \_\_\_\_\_

COMPANY UTAH MINES LTD.  
 WELL DDH-72-21  
 LOCATION CARBON CREEK

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
8-18-72					
First Reading	0		Nature		
Last Reading	491		Density		
Footage Logged	491'		Viscosity	@ °F	@ °F
Bottom (Driller)			Resistivity	@ °F	@ °F
Casing (From Log)			Res. @ BHT	@ °F	@ °F
Casing (Driller)			pH		
Casing Size 4 1/2"			Circ. Temp.		
Bit Size:			B.H. Temp.		
Bit Size:					
			Logged by	D.M. STEWART	
			Witnessed by		

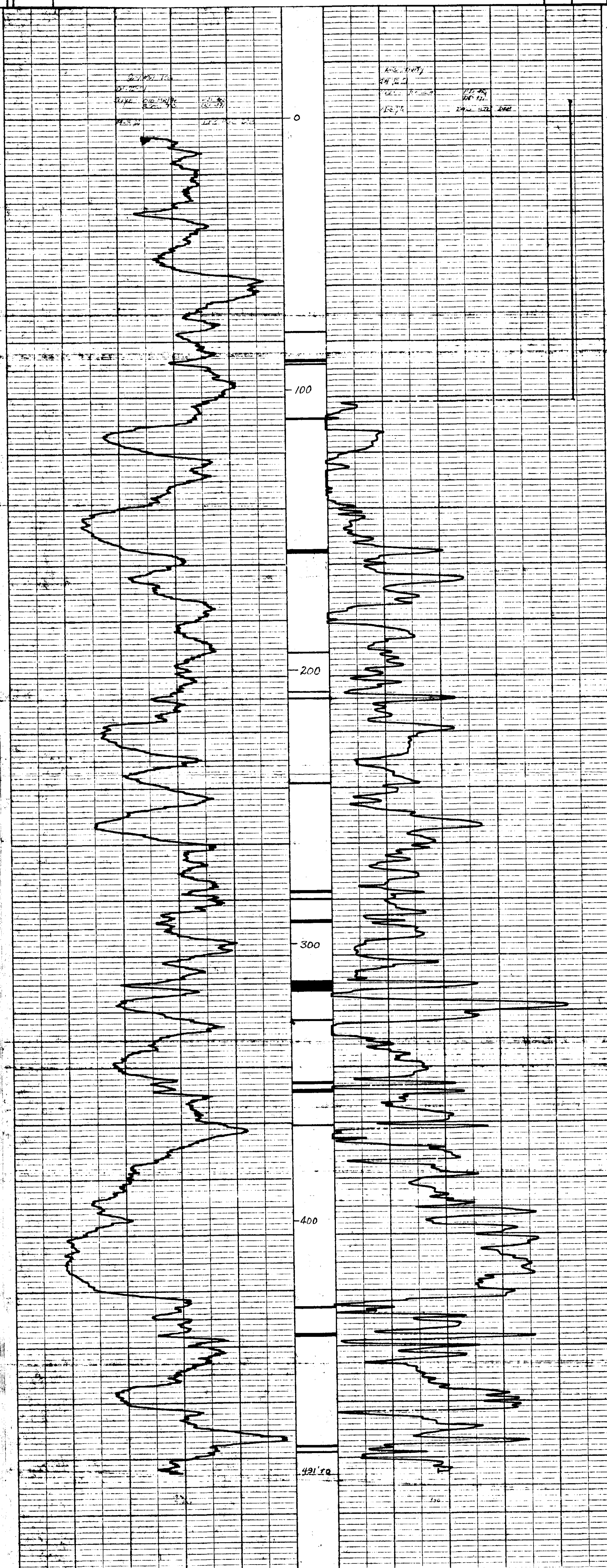
REMARKS: LOCATION: 316,300 N X 90,100 E

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG  
 SCALE - .010 MR/Hr  
 3 TC

FO.139

C. Carbon Creek 76(1)10-1 72-21



# Widco WELL LOG

COMPANY: UTAH MINES LTD.  
 AREA: CARBON CREEK 9/14 501  
 WELL: DDH-72-22  
 COUNTY: STATE: BRITISH COLUMBIA (23)  
 COORDINATES: N, S, ELEVATION: D.F., K.B., G.L.  
 LOCATION: CARBON CREEK  
 WELL: DDH-72-22  
 COMPANY: UTAH MINES LTD.  
 WELL: DDH-72-22  
 LOCATION: CARBON CREEK

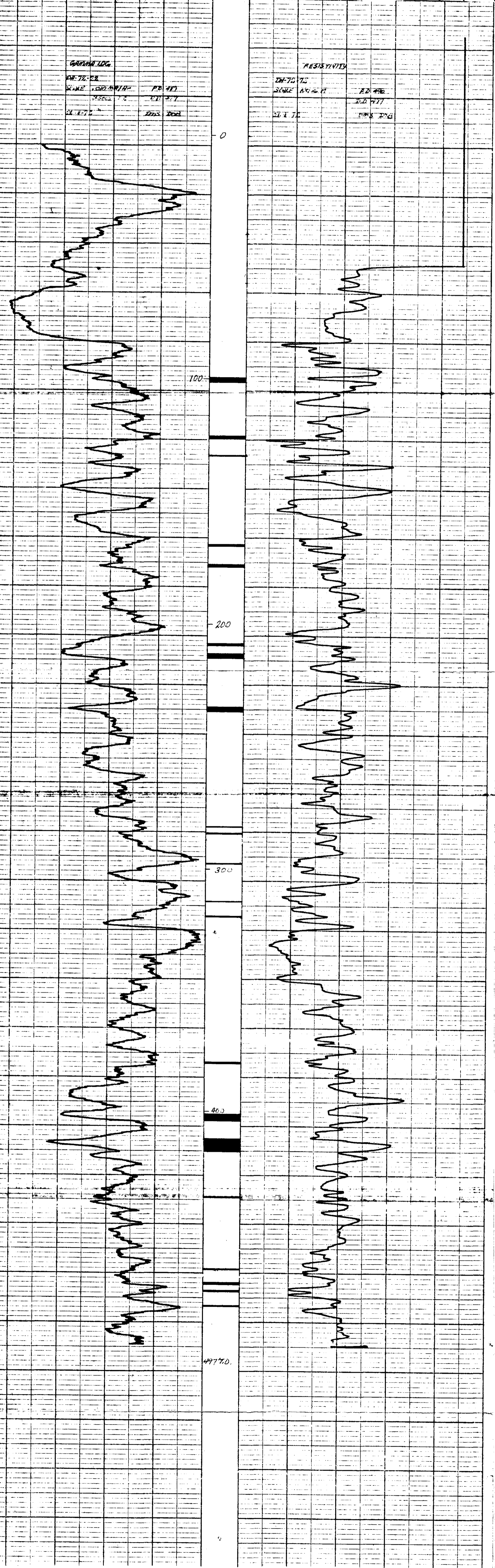
Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
8-24-72			Nature		
First Reading			Density		
497			Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size 4 1/2"			B.H. Temp.		
Bit Size:					
Bit Size:					

Logged by: D.M. STEWART  
 Witnessed by:

REMARKS: LOCATION: 315,000 N X 56,300 E

GAMMA RAY LOG  
 SCALE - .010 MP/hr  
 3 TC

R. ORRIS OR 76(5)A-1  
72-22



FO 139



# Widco \* WELL LOG

COMPANY UTAH MINES LTD.  
 AREA CARBON CREEK COAL BASIN  
 WELL 73-24  
 COUNTY PLACE RIVER AREA STATE BRITISH COLUMBIA

9/14 501  
(24)

COORDINATES:  
 N. 34425  
 E. 58725  
 ELEVATION: 2830'  
 D.F.  
 K.B.  
 G.L. 0630'

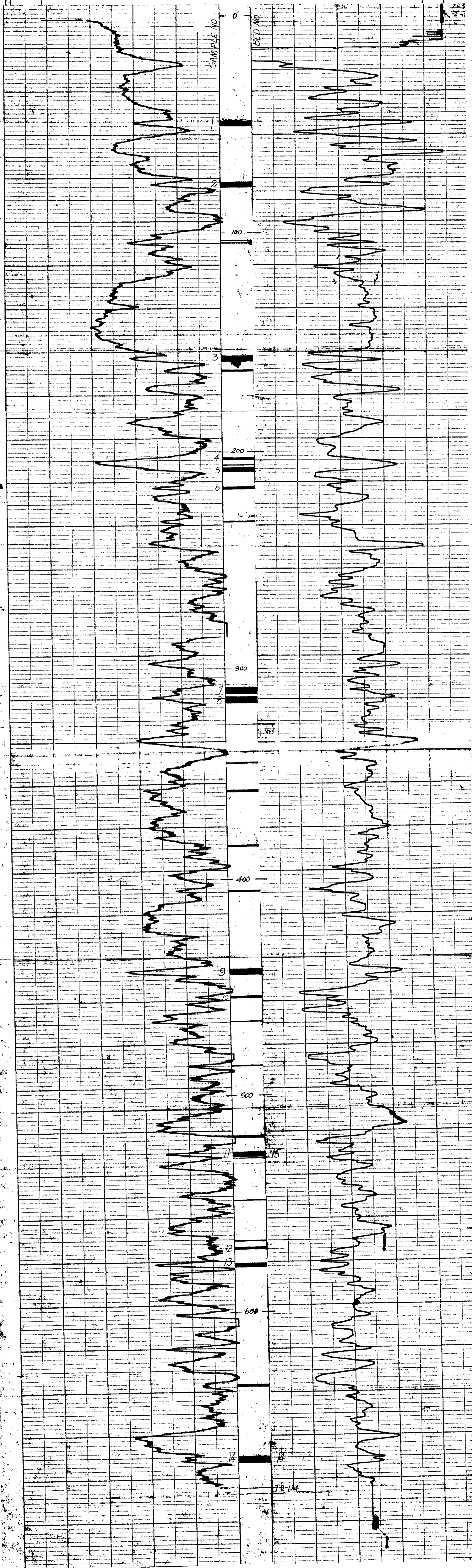
COMPANY UTAH MINES LTD.  
 WELL 73-24  
 LOCATION CARBON CREEK COAL BASIN

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	<u>JULY 1, 1973</u>		Nature		
First Reading	<u>0</u>		Density		
Last Reading	<u>684</u>		Viscosity	<u>@</u>	<u>@</u>
Footage Logged			Resistivity	<u>@</u>	<u>@</u>
Bottom (Driller)			Res. @ BHT	<u>@</u>	<u>@</u>
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size			Logged by	<u>D. Wigginton</u>	
Bit Size			Witnessed by	<u>N. L. Bobel</u>	

REMARKS:

GAMMA RAY LOG  
 SCALE: 0.10 BR/UF  
3 TO SECS

RESISTIVITY LOG  
 SCALE: 1 TO 100



CARBON CREEK COAL BASIN 73-24

FO 139

# Widco<sup>®</sup> WELL LOG

COMPANY: LETH BRIDGES LTD.  
 AREA: CARBON CREEK COAL BASIN  
 WELL: 73-25  
 COUNTY: PLACE RIVER AREA STATE: BRITISH COLUMBIA

COORDINATES:  
 N: 51100'  
 E: 51325'  
 ELEVATION: 3170'  
 D.F.:  
 K.B.: 3170'

WELL: 73-25  
 LOCATION: CARBON CREEK COAL BASIN

Date	Run No. 1	Run No. 2	MUD	Run No. 1		Run No. 2	
				Res. @ BHT	Viscosity	Res. @ BHT	Viscosity
June 7, 1973				@	F	@	F
First Reading 0				@	F	@	F
Last Reading 896				@	F	@	F
Footage Logged							
Bottom (Driller)							
Casing (From Log)							
Casing (Driller)							
Casing Size							
Bit Size							
Bit Size							

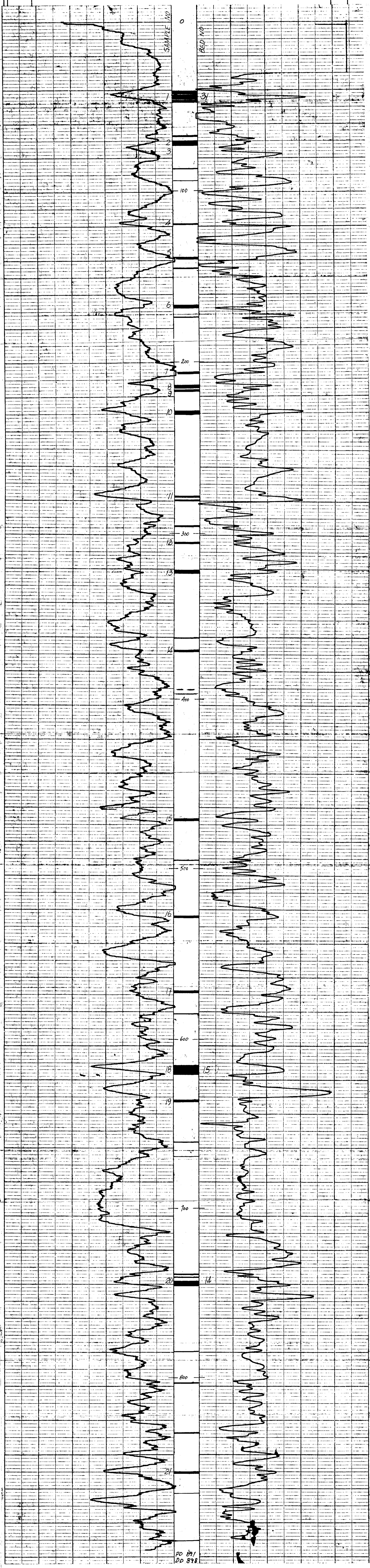
Logged by: D. J. [unclear]  
 Witnessed by: [unclear]

REMARKS:

GAUSS HAY LOG RESISTIVITY LOG  
 SCALE: 0.10 OHM/IN. RATE = 100 OHMS

LE - CARBON CREEK COAL BASIN - 73-25

FO-130



PD 891  
 DD 898

# Widco WELL LOG

COMPANY: OTIAR MINES LTD.  
 AREA: CARBON CREEK COAL BASIN **9.4 501**  
 WELL: 73-26  
 COUNTY: LEACHE RIVER AREA STATE: BRITISH COLUMBIA **(26)**

COORDINATES:  
 N: 360000  
 E: 52725  
 ELEVATION: 3700'  
 D.F.:  
 K.B.:  
 G.L.: 3700'

COMPANY: WATERBURY LTD.  
 WELL: 73-26  
 LOCATION: CARBON CREEK COAL BASIN

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	June 12, 1954		Nature		
First Reading	0		Density		
Last Reading	716		Viscosity	@	F
Footage Logged			Resistivity	@	F
Bottom (Driller)			Res. @ BHT	@	F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:					
Bit Size:					

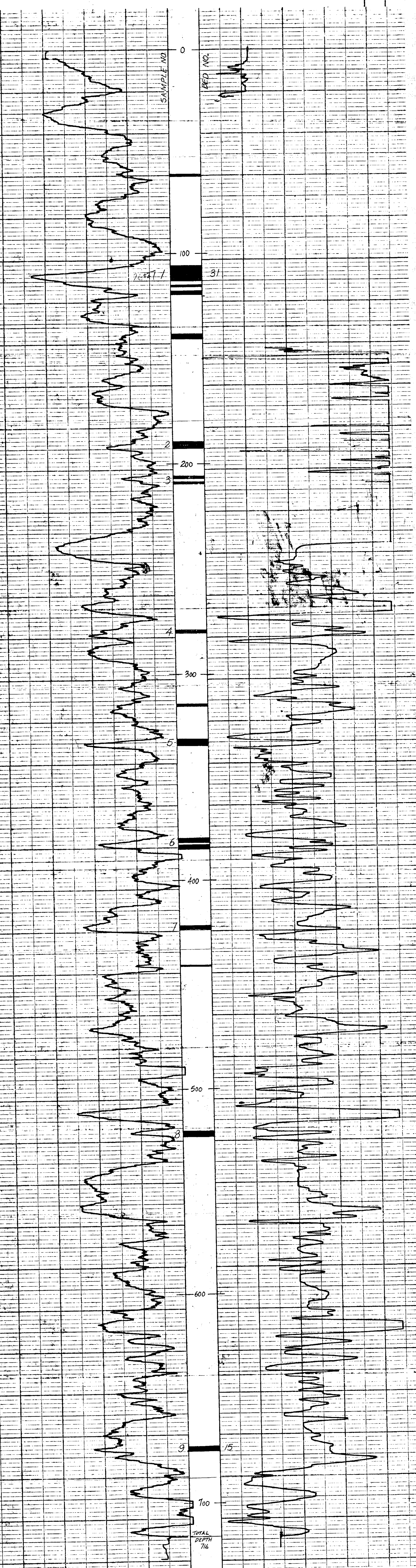
REMARKS:

GAMMA RAY LOG  
 SCALE: 0-100 R/HP  
 3 TC-STCS

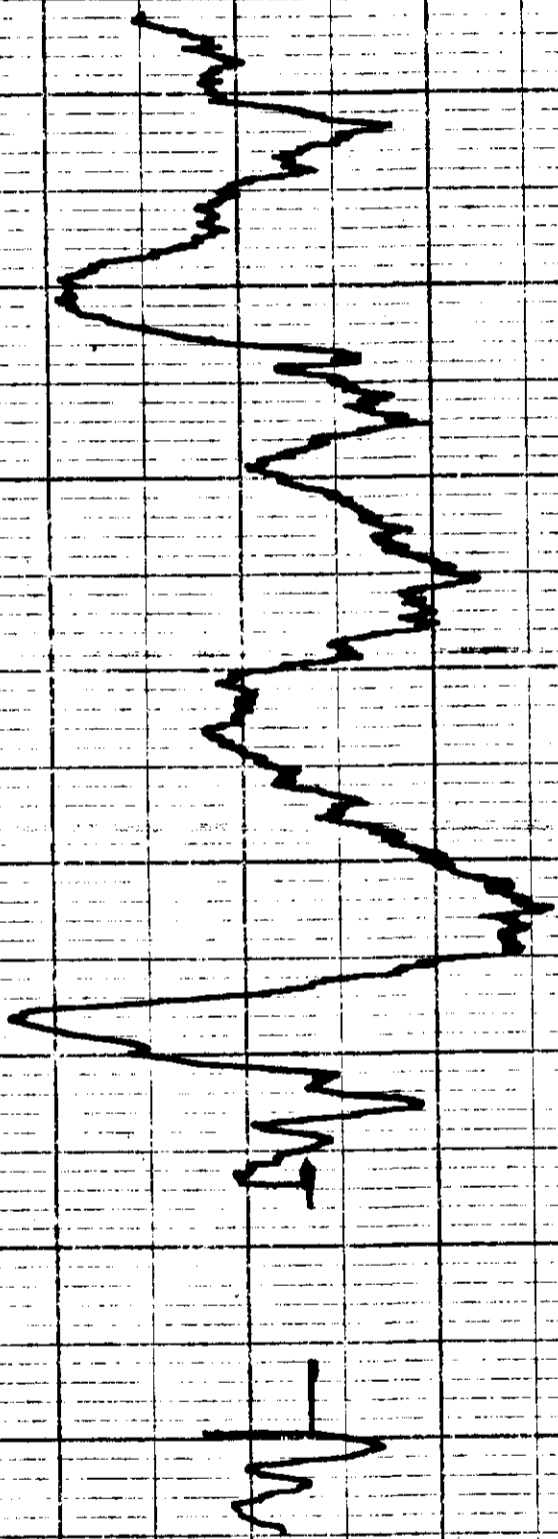
RESISTIVITY LOG

W-2008000-1 73-26

FO.139



73-28-A

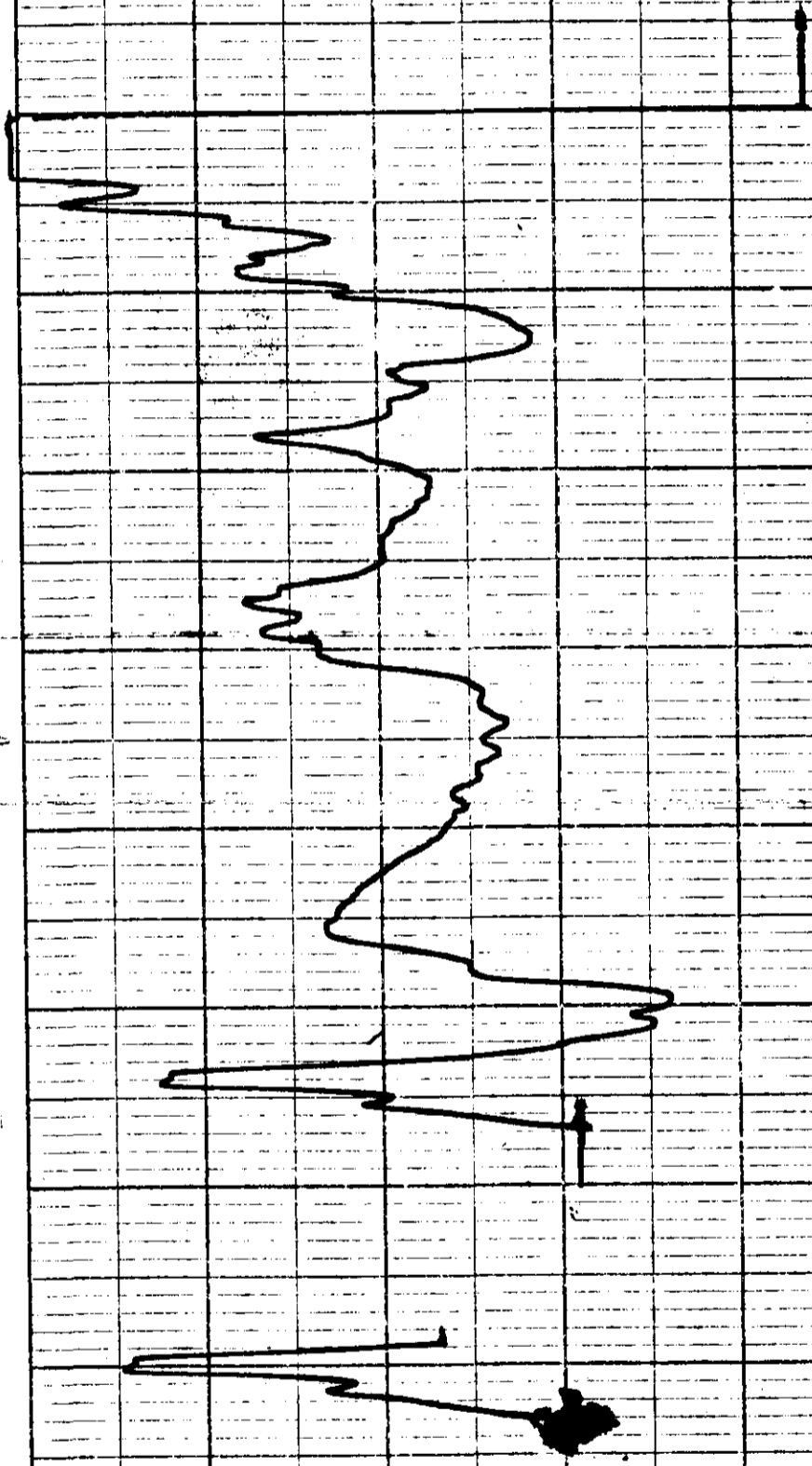


5.76 SECS  
 0.1 MF/MV

2/1  
 73-28-A

2  
 4  
 6  
 8

←



1/2 25 Ω

501 9/14 (2)

# Widco WELL LOG

COMPANY: WYLLI BIRDS LTD.  
 AREA: CARBON CREEK COAL BASIN  
 WELL: 73-27 **501**  
 COUNTY: PEACE RIVER AREA STATE: BRITISH COLUMBIA **(28)**

COORDINATES:  
 N: 369800  
 E: 50100  
 ELEVATION: 3680  
 D.F.:  
 K.B.:  
 G.I.: 3680

LOCATION: CARBON CREEK COAL BASIN  
 COMPANY: WYLLI BIRDS LTD.  
 WELL: 73-27

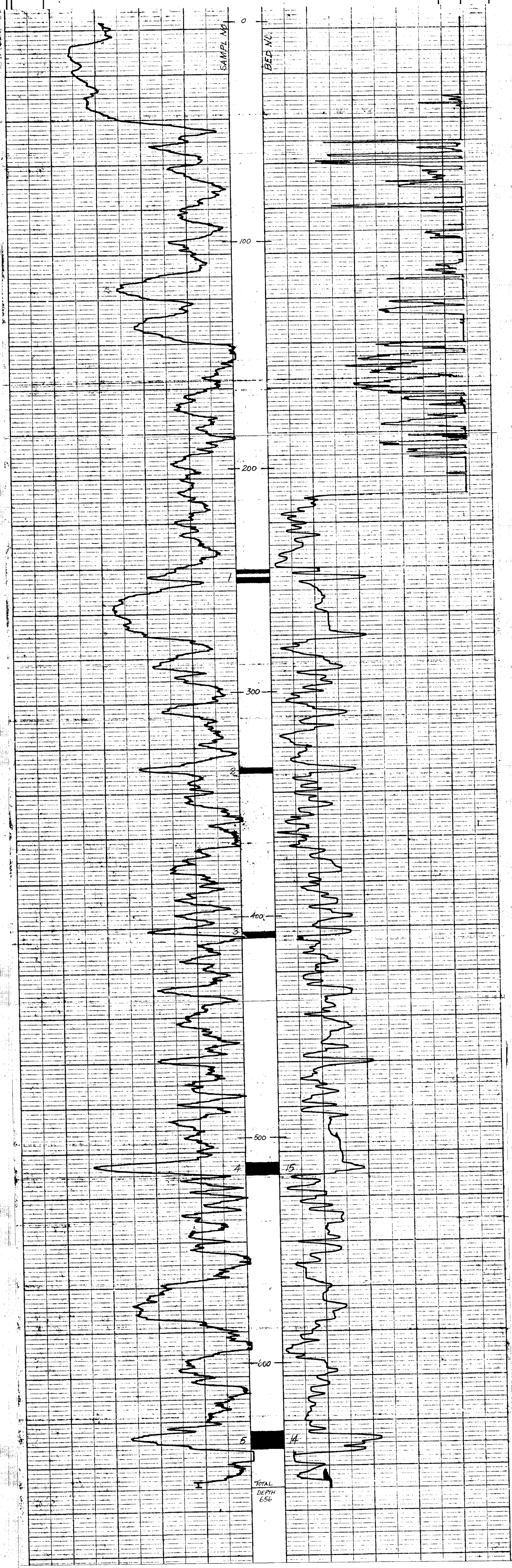
	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	<u>June 16, 1973</u>		Nature		
First Reading	<u>0</u>		Density		
Last Reading	<u>656</u>		Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:			Logged by	<u>H.S. Fullerton</u>	
Bit Size:			Witnessed by		

REMARKS:

GAUSS ERY LOG RESISTIVITY LOG

73-27

FO-139



# Widco \* WELL LOG

No. Carbon 76 (B) 2-1

COMPANY \_\_\_\_\_  
 WELL \_\_\_\_\_  
 LOCATION CARBON CREEK COAL BASIN

COMPANY UTAH METALS LTD.  
 AREA 501 9/14 73-28 CARBON CREEK COAL BASIN  
 WELL \_\_\_\_\_  
 COUNTY BLAINE RIVER AREA STATE (29)

COORDINATES:  
 N 370080'  
 E 54825'  
 ELEVATION: 2780'  
 D.F. \_\_\_\_\_  
 K.B. \_\_\_\_\_  
 G.L. 2780'

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	17th June, 1973		Nature		
First Reading	0		Density		
Last Reading	316		Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:					
Bit Size:					
			logged by		
			Witnessed by		

REMARKS \_\_\_\_\_

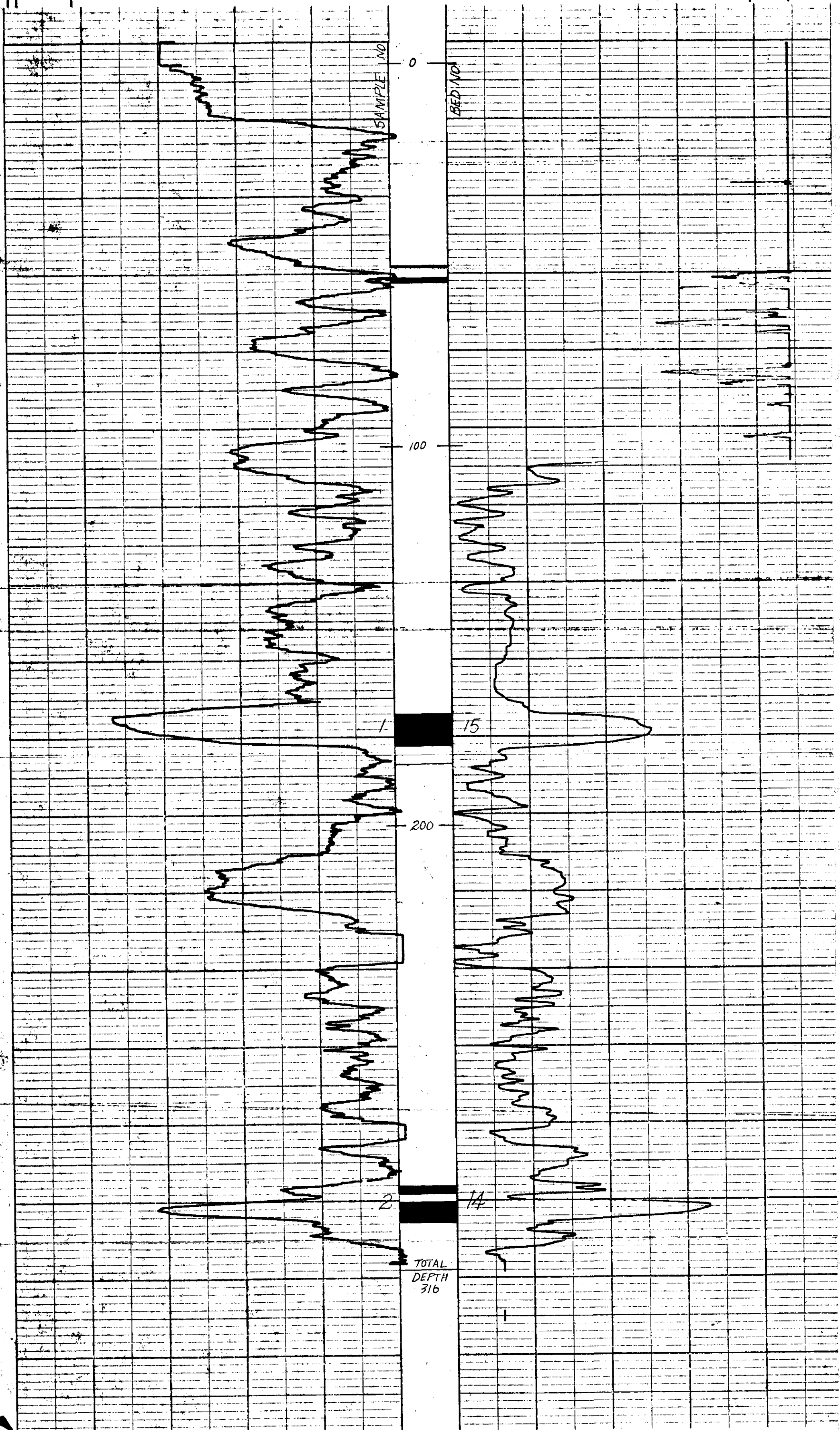
\* Reg. U.S. Pat. Off.

GASSER RAY LOG  
 SCALE = 1.00 OHM/FT  
 3 TC-SECS

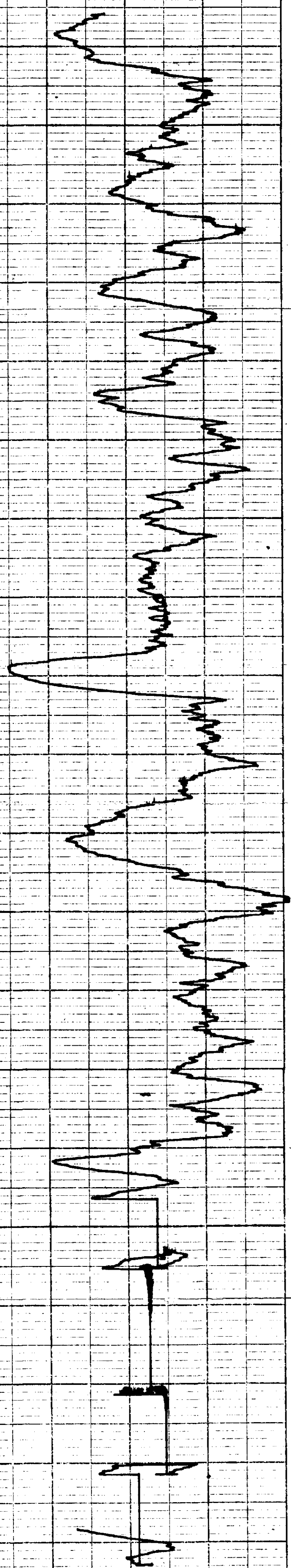
RESISTIVITY LOG  
 SCALE = 20 OHM/FT

FO-139

73-28



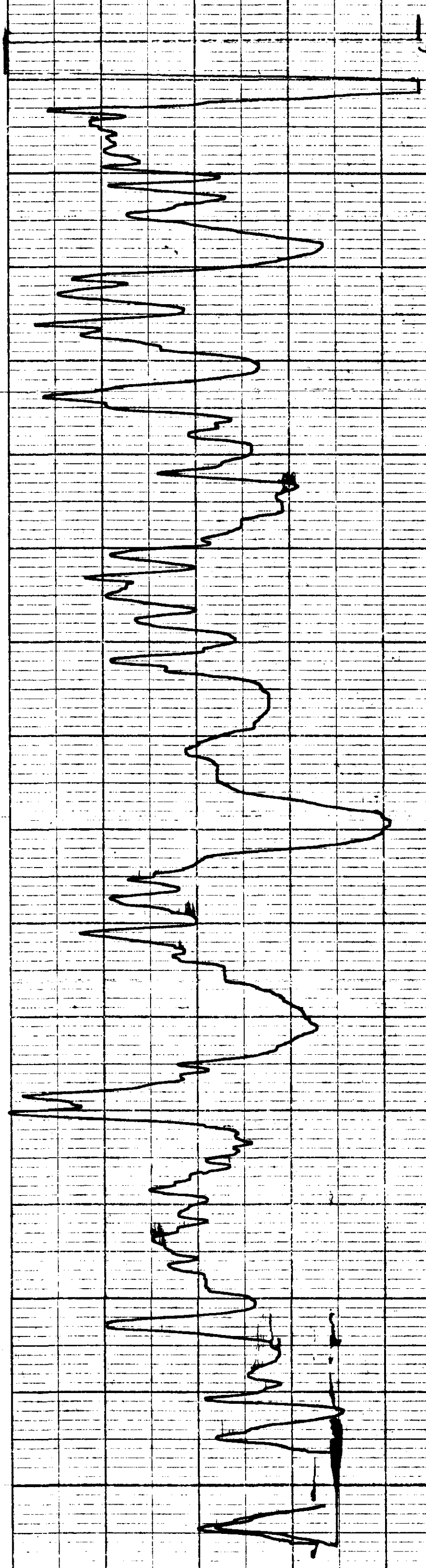
CARBON CREEK 73-28A  
GAMMA RAY LOG  
SCALE -- 0.10 MR/hm  
3 TC. Secs



3 1/2' 100'  
0.10 MR/hm  
Number and 31' in 1'  
2.0 to 2.2

73-28-A

RESISTIVITY LOG  
SCALE -- 25 Ω



(39) 501 9/14

# Widco <sup>\*</sup> WELL LOG

COMPANY UTAH MINES LTD.  
 AREA 501 9/M 73-29 (21)  
 WELL 73-29  
 COUNTY PLACE RIVER AREA STATE BRITISH COLUMBIA

COORDINATES:  
 N 36° 25' 0"  
 E 117° 15' 0"  
 ELEVATION: 2520'  
 D.F.  
 K.B.  
 G.L. 1720'

COMPANY UTAH MINES LTD.  
 WELL 73-29  
 LOCATION CARBON CREEK COAL BASIN

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	19th June, 1973		Nature		
First Reading	0		Density		
Last Reading	375		Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by		
			Witnessed by		

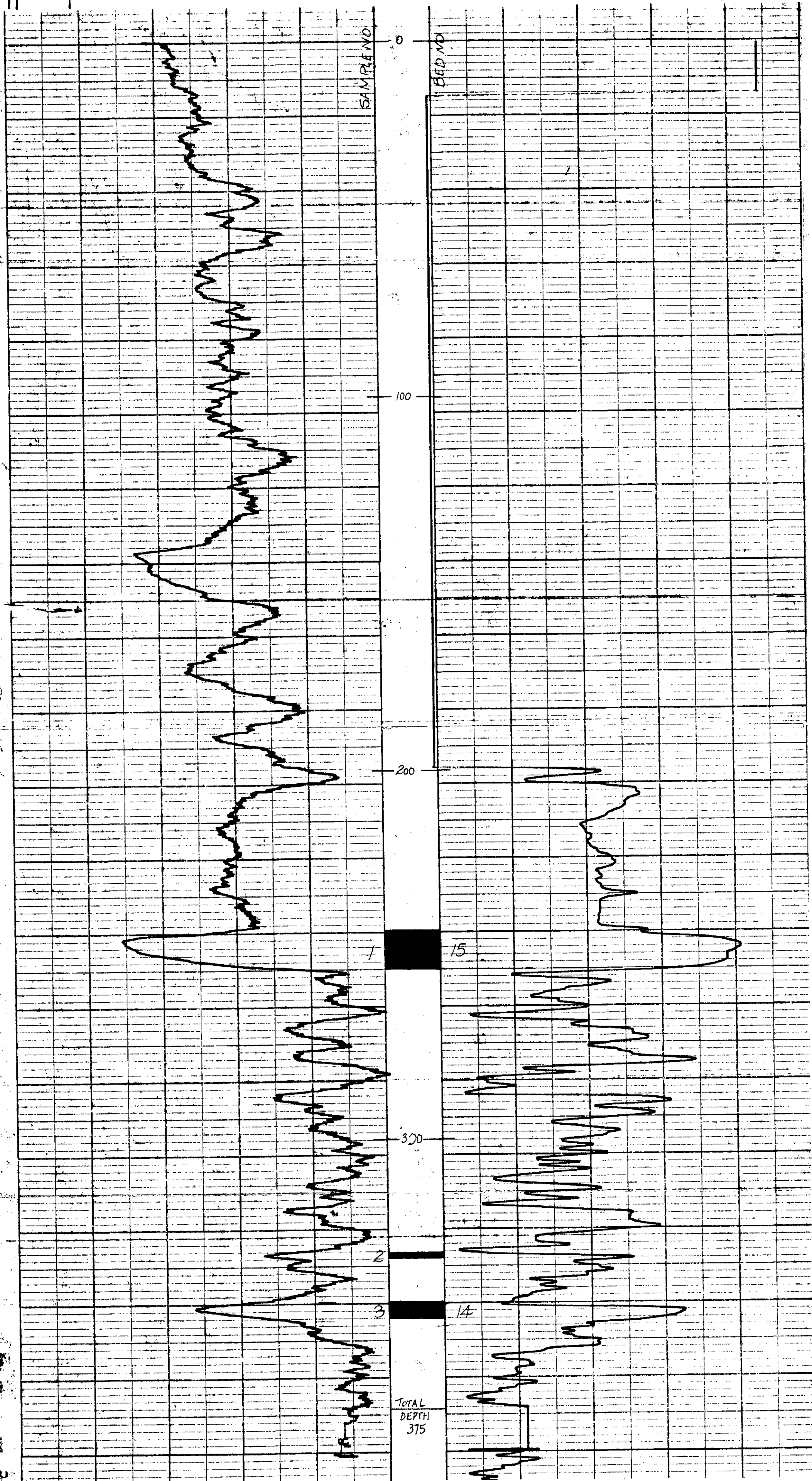
REMARKS

\* Reg. U.S. Pat. Off.

GAMMA RAY LOG

RESISTIVITY LOG

FO-139

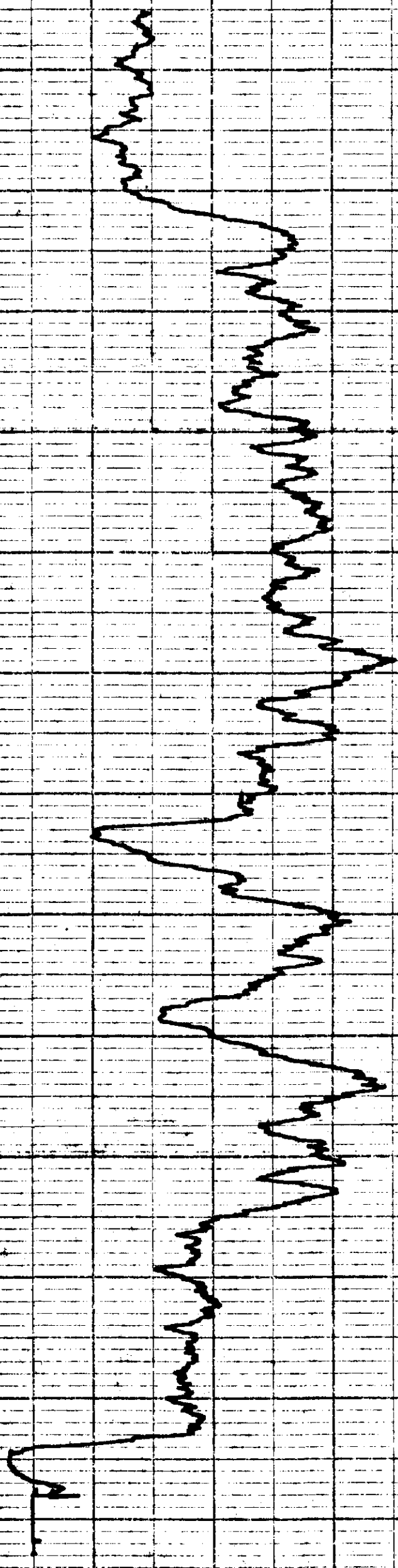


73-29

73-29



Gamma



38



73-29A

Gamma

73-29A

9/14 501 (32)

# Widco WELL LOG

7-1-31-1

COMPANY: IT&I MINES LTD.  
 AREA: CARBON CREEK COAL BASIN  
 WELL: 7-1-31-1 **9/14 501**  
 COUNTY: PLACE RIVER AREA STATE: BRITISH COLUMBIA **(23)**

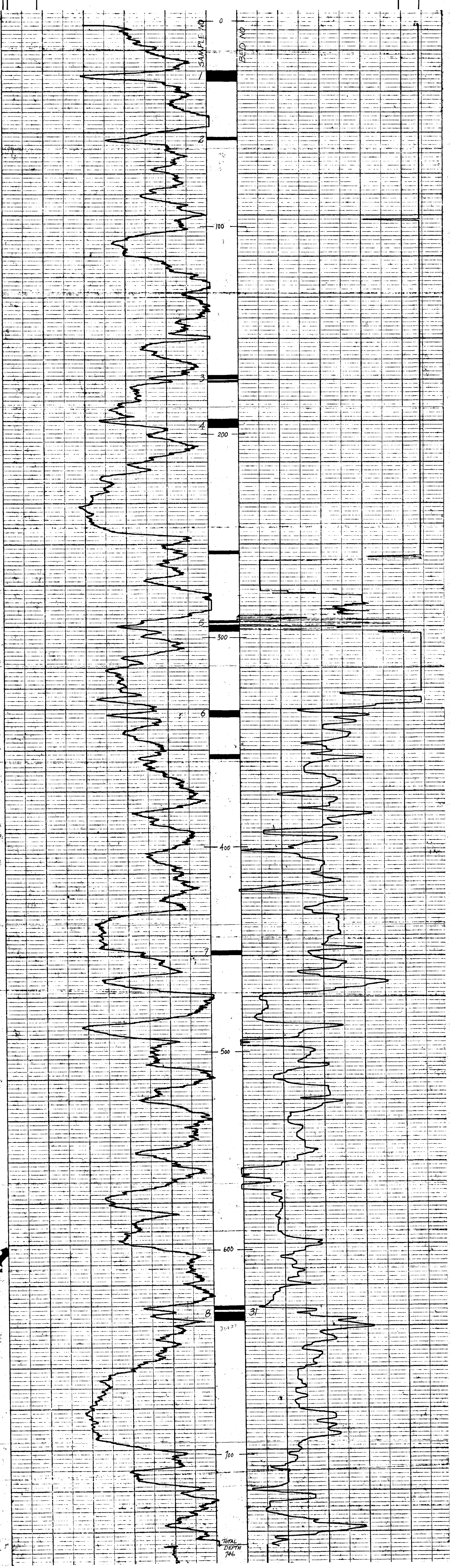
COMPANY: IT&I MINES LTD.  
 WELL: 7-1-31-1  
 LOCATION: CARBON CREEK COAL BASIN

COORDINATES:  
 N: 35°00'  
 E: 109°00'  
 ELEVATION: 3300'  
 D.F.:  
 K.B.:  
 G.I.: 3300'

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date	23rd June, 1973		Nature		
First Reading	0		Density		
Last Reading	746		Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:			Logged by	D. L. [unclear]	
			Witnessed by		

REMARKS:

FORMER PLY LOG SCALE = 1.00 METER  
 PRESENT PLY LOG SCALE = 100 OHMS  
 3 TX-SECS



FO-139

73-31  
 PR: CARBON CR. 76(3)C-1

# Widco \* WELL LOG

COMPANY: UTAH MINES LTD.

AREA: CARBON CREEK COAL BASIN

WELL: 73-31

COUNTY: STACE RIVER AREA STATE: BRITISH COLUMBIA

COORDINATES:

N: 355200  
 E: 62950  
 ELEVATION: 3050'  
 D.F.  
 K.B.  
 G.I.: 3050'

COMPANY: UTAH MINES LTD.  
 WELL: 73-31  
 LOCATION: CARBON CREEK COAL BASIN

	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date: 20th June, 1973			Nature		
First Reading: 0			Density		
Last Reading: 576			Viscosity	@ °F	@ °F
Footage Logged			Resistivity	@ °F	@ °F
Bottom (Driller)			Res. @ BHT	@ °F	@ °F
Casing (From Log)			pH		
Casing (Driller)			Circ. Temp.		
Casing Size			B.H. Temp.		
Bit Size:					
Bit Size:					
			Logged by		
			Witnessed by		

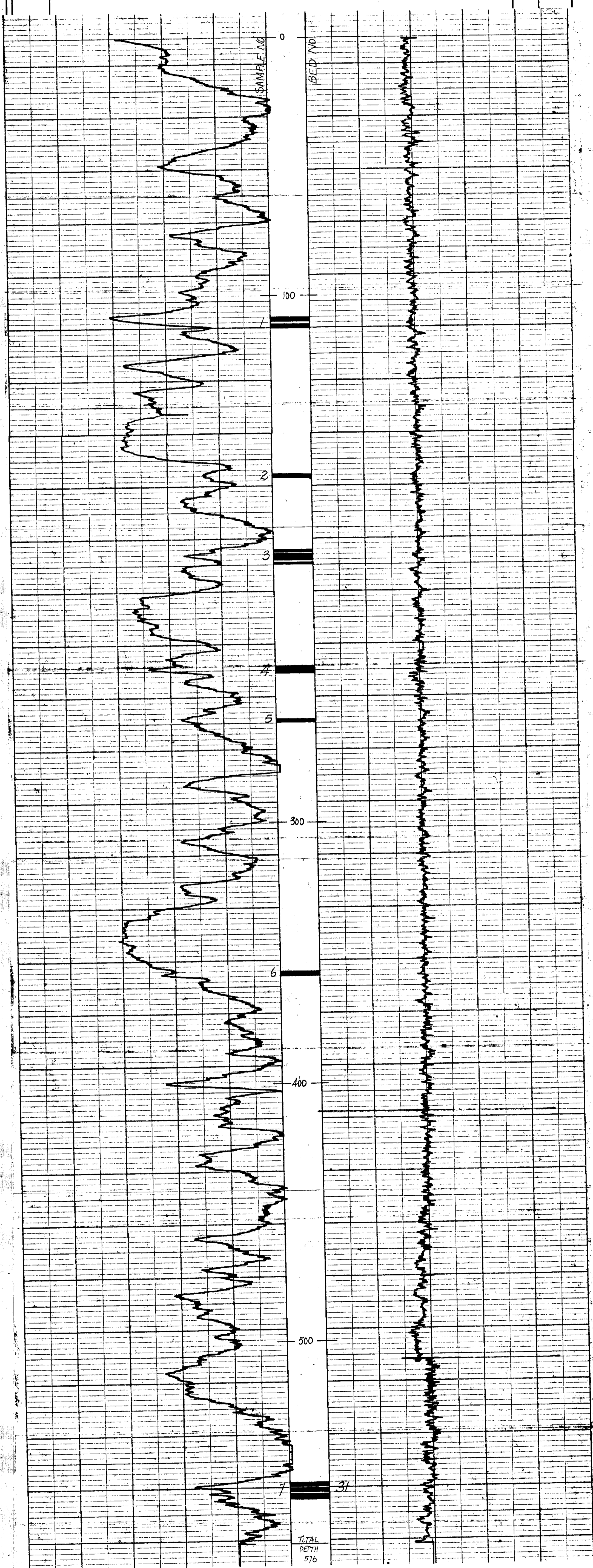
REMARKS:

GAMMA RAY LOG: SCALE = 101.5 RR/HR  
 1 TO SECS

RESISTIVITY LOG: SCALE = 100 OHM  
 1 TO SECS

\* Reg. U.S. Pat. Off.

FO-139



73-33  
 73-33-1

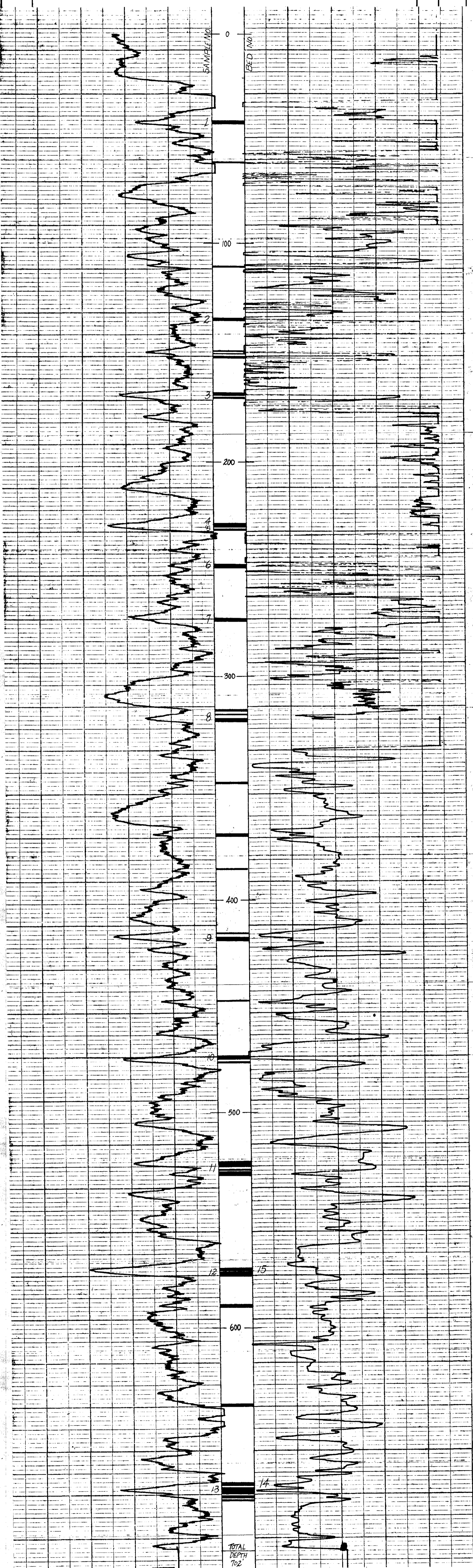
# Widco WELL LOG

COMPANY: <b>UTAH MINES LTD.</b>		COORDINATES:	
AREA: <b>5019/4</b>	CARBON CREEK COAL BASIN	N: 363145'	E: 56196'
WELL: <b>73-33</b>	(35)	ELEVATION: 3300'	D.F.
COUNTY: <b>PLACE RIVER AREA</b>	STATE: <b>BRITISH COLUMBIA</b>	K.B.	G.L. 3320'

Date	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
29th July, 1973					
First Reading			Nature		
Last Reading			Density		
Footage Logged			Viscosity	@ °F	@ °F
Bottom (Driller)			Resistivity	@ °F	@ °F
Casing (From Log)			Res. @ BHT	@ °F	@ °F
Casing (Driller)			pH		
Casing Size			Circ. Temp.		
Bit Size:			B.H. Temp.		
Bit Size:			Logged by		
			Witnessed by		

REMARKS:

GAMMA RAY LOG: SCALE = 1.00 MG/HP, 3 TC-SECS  
 RESISTIVITY LOG: SCALE = 100 OHMS



6110