

7131

PART  
2 OF 2

79-#33-#7131

RADIOMETRIC LOGS

# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY NORDEM ENERGY RESOURCES LIMITED

WELL 78 - ND - 37

LOCATION 2429, 544 N 24, 972 E

FIELD BLIZZARD

PROVINCE BRITISH COLUMBIA

PERMANENT DATUM GROUND LEVEL Elev. 1341.97

LOG MEASURED FROM GROUND LEVEL Above Perm. Datum

WELL DEPTHS MEASURED FROM G.L. 1341.97

DATE 23 JULY 1978

RUN NO. ONE

FOOTAGE LOGGED 25.3

DEPTH REACHED 27.45

DEPTH DRILLER

CASTING DRILLER

FLUID TYPE WATER

LIQUID LEVEL ZONE

MIN. DIAM. HQ

OPERATING TIME 1 HOUR

TRUCK NO. 40

RECORDED BY SIM WITNESSED BY TURNER

### EQUIPMENT DATA

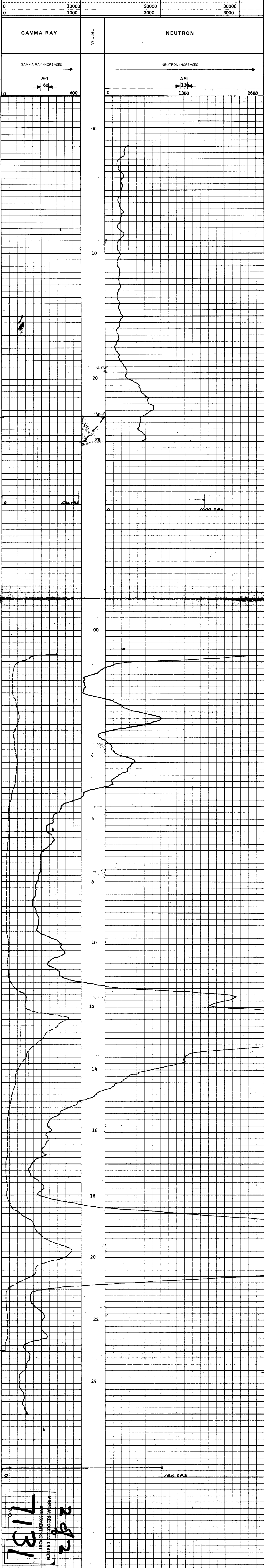
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
<b>HIGH FLUX GAMMA RAY</b>		SERIAL NO.	256
RUN NO.	ONE	SPACING	43 CM
TOOL MODEL NO.	HGR 125 01	TYPE	AmBe
DIAMETER	32 MM	STRENGTH	3 CURTES
TYPE	SCINTILLATION		
SIZE	13 x 13 MM		

### LOGGING DATA

RUN NO.	GENERAL			GAMMA RAY			NEUTRON				
	FROM	TO	SPEED M/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	0	25	4	3	500	OL	60	3	1000	OL	130
1	1	25	1 1/2	3	100	OL	100 CPS		HIGH FLUX GAMMA RAY		
1	1	23	1 1/2	3	1000	OL	1000 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH PLASTIC CASING

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
7131  
282

# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

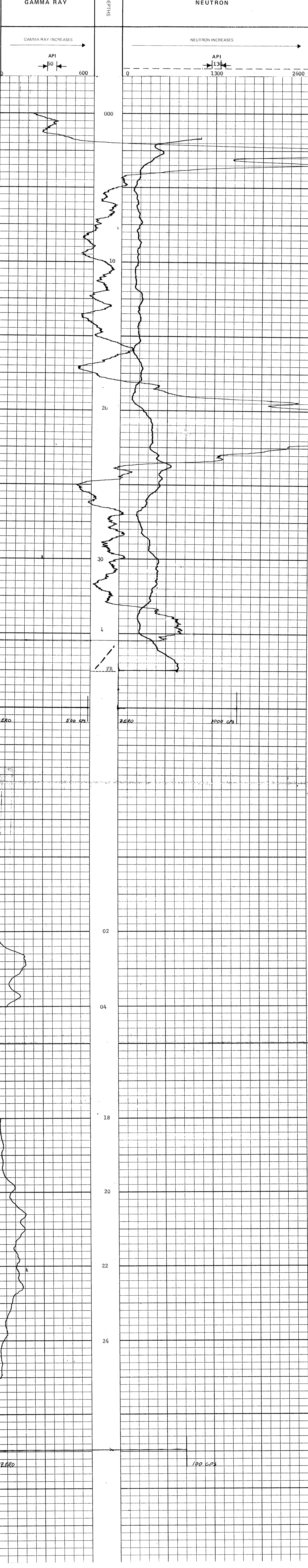
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 38
SEC	LOCATION	2431.268 N - 6.580 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
M	Other Services:	
Permanent Datum	GROUND LEVEL	Elev. 1343.77
Log Measured from	RIG FLOOR	0.3 M. Above Perm. Datum
Well Depths Measured from		Q.L. 1343.77 METRIC
Run No.	ONE	
Date	12 AUG. 1978	
First Reading	37.5 M	
Last Reading	0	
Footage Logged	37.5	
Depth Reached	40.1	
Depth Driller	40.25	
Casing Bore		
Casing Driller	WALTER	
Fluid Type	0	
Liquid Level	HQ	
Min. Diam.		
Operating Time	1 HOUR	
Truck No.	40	
Recorded By	KALIGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125 A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	102 x 19 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO	MRC-N-SS-W
		SERIAL NO	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA											
RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	DEPTHS	SPEED	T.C.	SENS.	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS	
	FROW	TO	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	
1	0	37.5	4	3	500	0	60	3	1000	0	130
1	01.2	04	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY
	18	25	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY

REMARKS: LOGGED THROUGH PLASTIC CASING

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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NATIONAL RESEARCH  
ASSESSMENT REPORT

# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

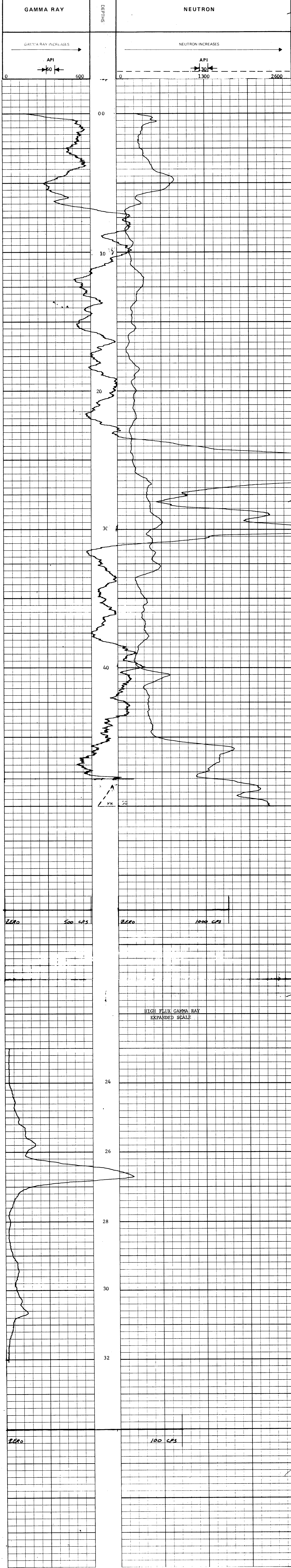
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 194
TWP	LOCATION	2499.59 N 0.80 E
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	Permanent Datum	GROUND LEVEL Elev. 1348.88
	Log Measured from	RIG FLOOR + 23M Above Perm Datum
	Well Depth Measured from	G.L. 1348.88 METRIC
Run No.	ONE	
Date	13 SEP 1978	
First Reading	50 M	
Last Reading	0	
Footage Logged	50	
Depth Reached	50.2	
Depth Driller	50.9	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALJGIN	Witnessed By
		MCWILLIAMS

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
Run No.	ONE	Run No.	ONE
Tool Model No.	R GRN 125A 002	Log Type	NEUTRON/NEUTRON
Diameter	32 MM	Tool Model No.	R GRN 125A 002
Type	SCINTILLATION	Diameter	32 MM
Size	19 x 102 MM	Type	PROPORTIONAL
Distance to N. Source	2 M	Length	152 MM
<b>HIGH FLUX GAMMA RAY</b>		Source Model No.	MRC-N-SS-W
Run No.	ONE	Serial No.	256
Tool Model No.	HFRG 125 01	Spacing	43 CM
Diameter	32 MM	Type	AmBe
Type	SCINTILLATION	Strength	3 CURIES
Size	13 x 13 MM		

LOGGING DATA											
GENERAL				GAMMA RAY			NEUTRON				
PUL. NO.	DEPTHS		SPEED	T.C.	SENS.	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	M / MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	50	4	3	500	0	60	3	1000	0	130
1	23	32	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



MINERAL SERVICES LTD.  
ADDRESS: 1000-1000  
NO. 7131  
282

# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

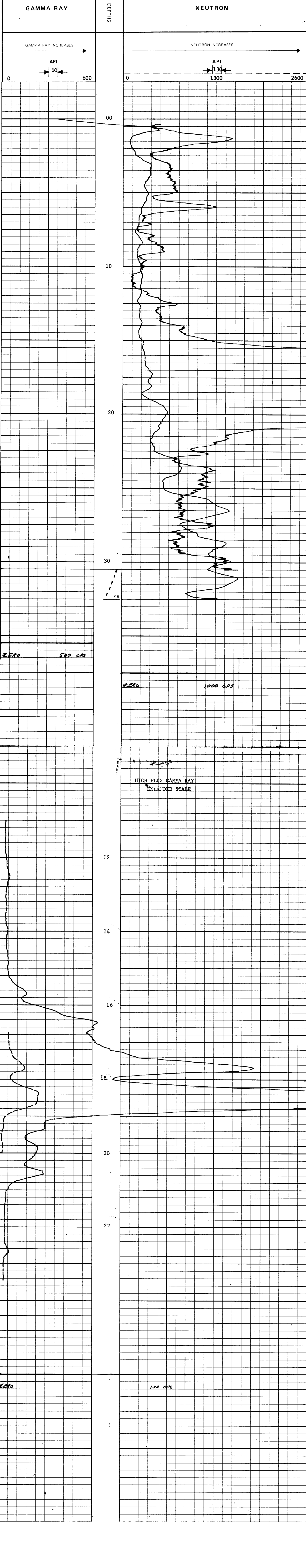
FILE NO.	COMPANY	NOCKEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 196
TWP	LOCATION	2400.23 N 29.20 E
RGE	FIELD	BLIZZARD
M	PROVINCE	BRITISH COLUMBIA
	PERMANENT DATUM	GROUND LEVEL, Elev. 1339.03
	LOG MEASURED FROM	RIG FLOOR 0.28M Above Perm. Datum
	WELL DEPTH MEASURED FROM	G.L. 1339.03 METRIC
	OTHER SERVICES:	
RUN NO.	ONE	
DATE	13 SEP 1978	
FIRST READING	32.5 M	
LAST READING	0	
FOOTAGE LOGGED	32.5	
DEPTH REACHED	32.8	
DEPTH DRILLER	32.92	
Casing Rate		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALJGIN	Witnessed By
		McILLIAMS

EQUIPMENT DATA		GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	TOOL MODEL NO.	R GRN 125A 002	TOOL MODEL NO.	R GRN 125A 002
DIAMETER	32 MM	DIAMETER	32 MM	DIAMETER	32 MM
TYPE	SCINTILLATION	TYPE	SCINTILLATION	TYPE	PROPORTIONAL
SIZE	19 x 102 MM	SIZE	19 x 102 MM	SIZE	152 MM
DISTANCE TO N. SOURCE	2 M	DISTANCE TO N. SOURCE	2 M	DISTANCE TO N. SOURCE	2 M
<b>HIGH FLUX GAMMA RAY</b>		<b>HIGH FLUX GAMMA RAY</b>		<b>HIGH FLUX GAMMA RAY</b>	
RUN NO.	ONE	SERIAL NO.	256	SERIAL NO.	256
TOOL MODEL NO.	HFGR 125 01	SPACING	43 CM	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURTES	STRENGTH	3 CURTES
SIZE	13 x 13 MM				

LOGGING DATA										
GENERAL				GAMMA RAY				NEUTRON		
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	SEC	SETTINGS	DIV L OR R	PER LOG DIV.	SEC	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	32.5	4	3	500	0	3	1000	0	130
1	11	23	1.5	3	100	0	3	1000	0	130
	17	20	1.5	3	1000	0				

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

**GAMMA RAY NEUTRON LOG**  
**HIGH FLUX GAMMA RAY**

OIL ENTERPRISES LTD. CALGARY, ALBERTA

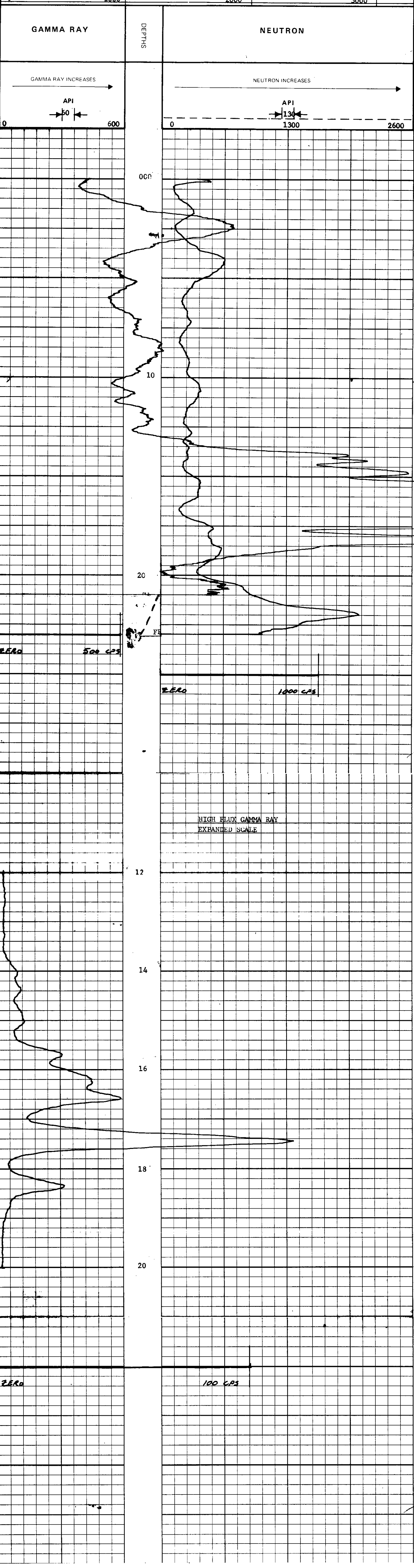
FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
WELL	78 - ND - 198	
LOCATION	2370.47 N 30.09 E	
FIELD	BIZZARD	
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1337.37
Log Measured from	RIG FLOOR	3.1 M Above Perm Datum
Well Depth Measured from		K.B. CSG G.L. 1337.37 METRIC
Run No.	ONE	
Date	14 SEP 1978	
First Reading	23 M	
Last Reading	0	
Footage Logged	23	
Depth Reached	23	
Depth Driller	22.9	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	XALINGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
<b>HIGH FLUX GAMMA RAY</b>		SOURCE MODEL NO.	MRC-N-SS-W
RUN NO.	ONE	SERIAL NO.	256
TOOL MODEL NO.	HFGR 125 01	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURIES
SIZE	13 x 13 MM		

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	23	4	3	500	0	60	3	1000	0	130
1	12	20	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

GAMMA RAY NEUTRON LOG  
HIGH FLUX GAMMA RAY

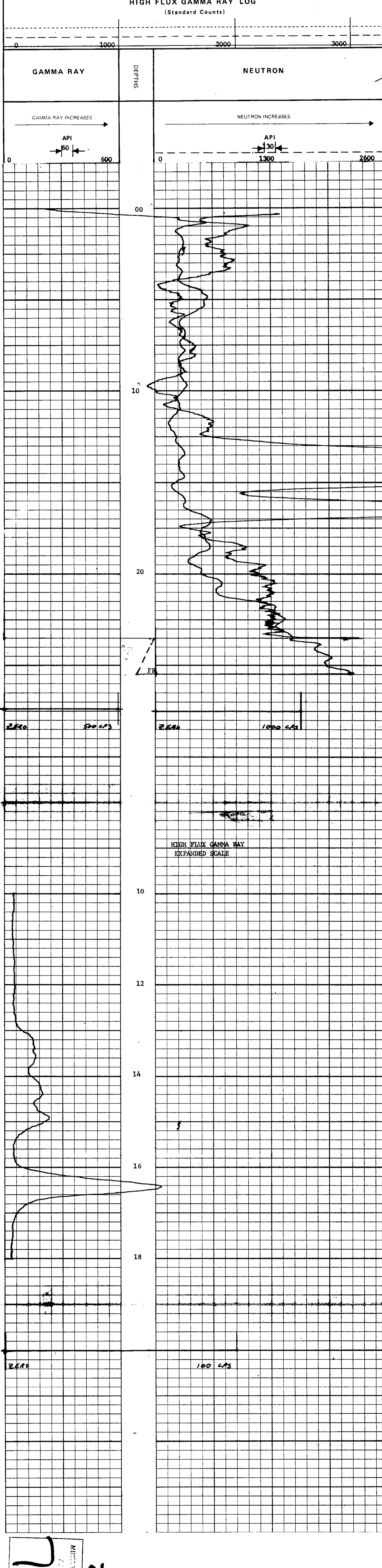
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 200
TWP	LOCATION	2340.73 N 23.17 E
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1335.90
	RIG FLOOR	28 M Above Perm. Datum
	Well Depth Measured from	G.L. 1335.90 METRIC
Run No.	ONE	
Date	14 SEP 1978	
Last Reading	25.5 M	
Footage Logged	0	
Depth Reached	25.7	
Depth Driller	25.91	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Mn. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-8S-W
<b>HIGH FLUX GAMMA RAY</b>			
RUN NO.	ONE	SERIAL NO.	256
TOOL MODEL NO.	HFGR 125 01	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURIES
SIZE	13 x 13 MM		

LOGGING DATA											
RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	25.5	4	3	500	0	60	3	1000	0	130
I	10	18	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY

REMARKS LOGGED THROUGH HQ DRILL RODS



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7131

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 201
SEC	LOCATION	2339.88 N 0.61 E
TWP	RGE	
RGE	FIELD	BLIZZARD
W. M.	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1337.08
	RIG FLOOR	.34 M Above Perm. Datum
	Well Depths Measured from	G.L. 1337.08 METRIC
Permanent Datum		K.B.
Log Measured from		CSG
Well Depths Measured from		G.L. 1337.08 METRIC
Run. No.	ONE	
Date	14 SEP 1978	
First Reading	32 M	
Last Reading	0	
Footage Logged	32	
Depth Reached	32.2	
Depth Driller	32.6	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 0F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

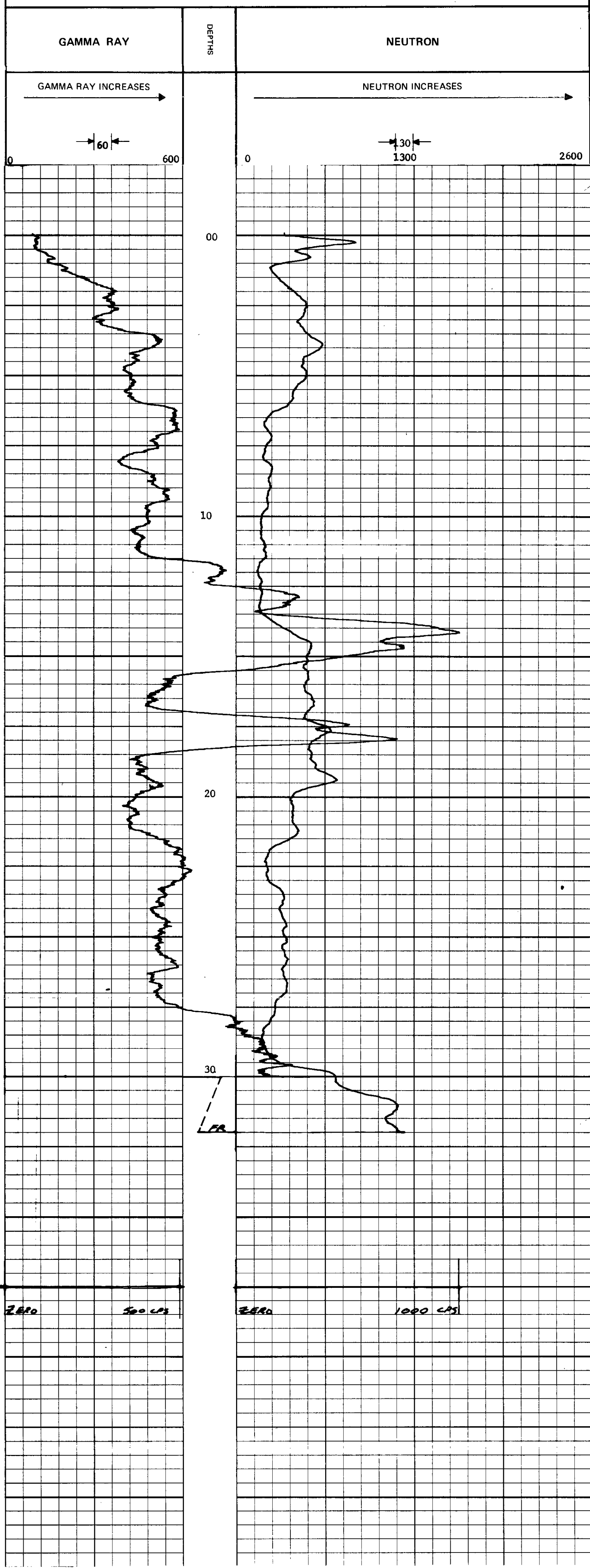
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

RUN NO.	GENERAL			GAMMA RAY				NEUTRON			
	FROM	TO	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
			M. MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	32	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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7131



# ROKE

## GAMMA RAY NEUTRON LOG HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

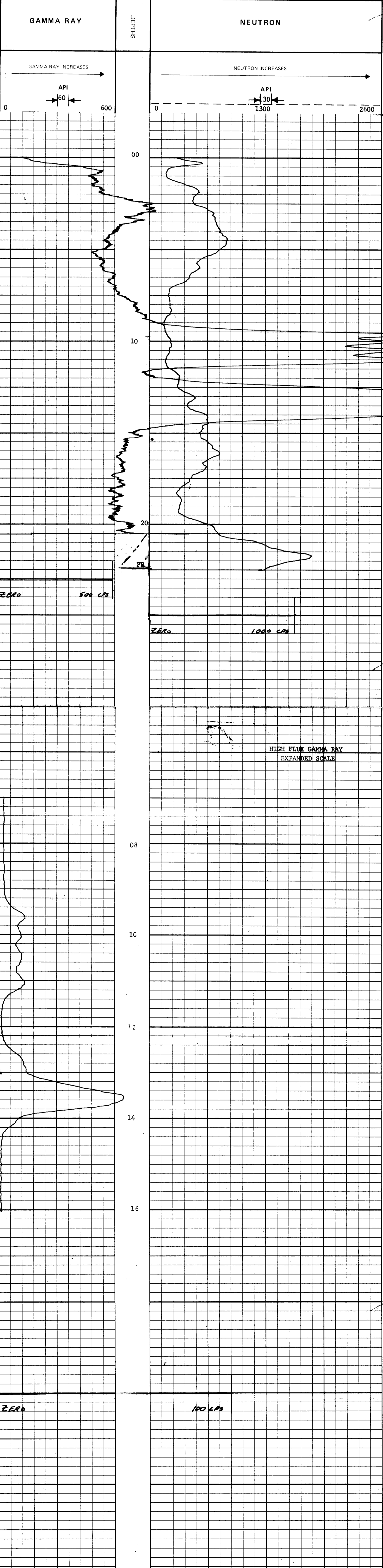
FILE NO.	COMPANY	NORBEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 202
SEC	RGE	
TWP	LOCATION	2310.11 N 29.51 E
RGE		
W	FIELD	BLIZZARD
M	PROVINCE	BRITISH COLUMBIA
	Other Services:	
Permanant Datum	GEONINB LEVEL	Elev. 1332.04
Log Measured From	RIG FLOOR	M Above Perm. Datum
Well Depths Measured From	CSG	G.L. 1332.04
		METRIC
Run No.	ONE	
Date	15 SEP 1978	
First Reading	22.5 M	
Last Reading	0	
Footage Logged	22.5	
Depth Reached	22.7	
Depth Driller	22.55	
Casing Roke		
Casing Driller	WALTER	
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
HIGH FLUX GAMMA RAY			
RUN NO.	ONE	SERIAL NO.	256
TOOL MODEL NO.	HEGR 125 01	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURIES
SIZE	13 x 13 MM		

LOGGING DATA											
RUN NO.	GENERAL			GAMMA RAY				NEUTRON			
	DEPTHS	SPEED	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	0	22.5	4	3	500	0	60	3	1000	0	130
1	7	16	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



HIGH FLUX GAMMA RAY  
EXPANDED SCALE

MINERAL RESOURCES DIVISION  
7131  
2872  
CM

# ROKE

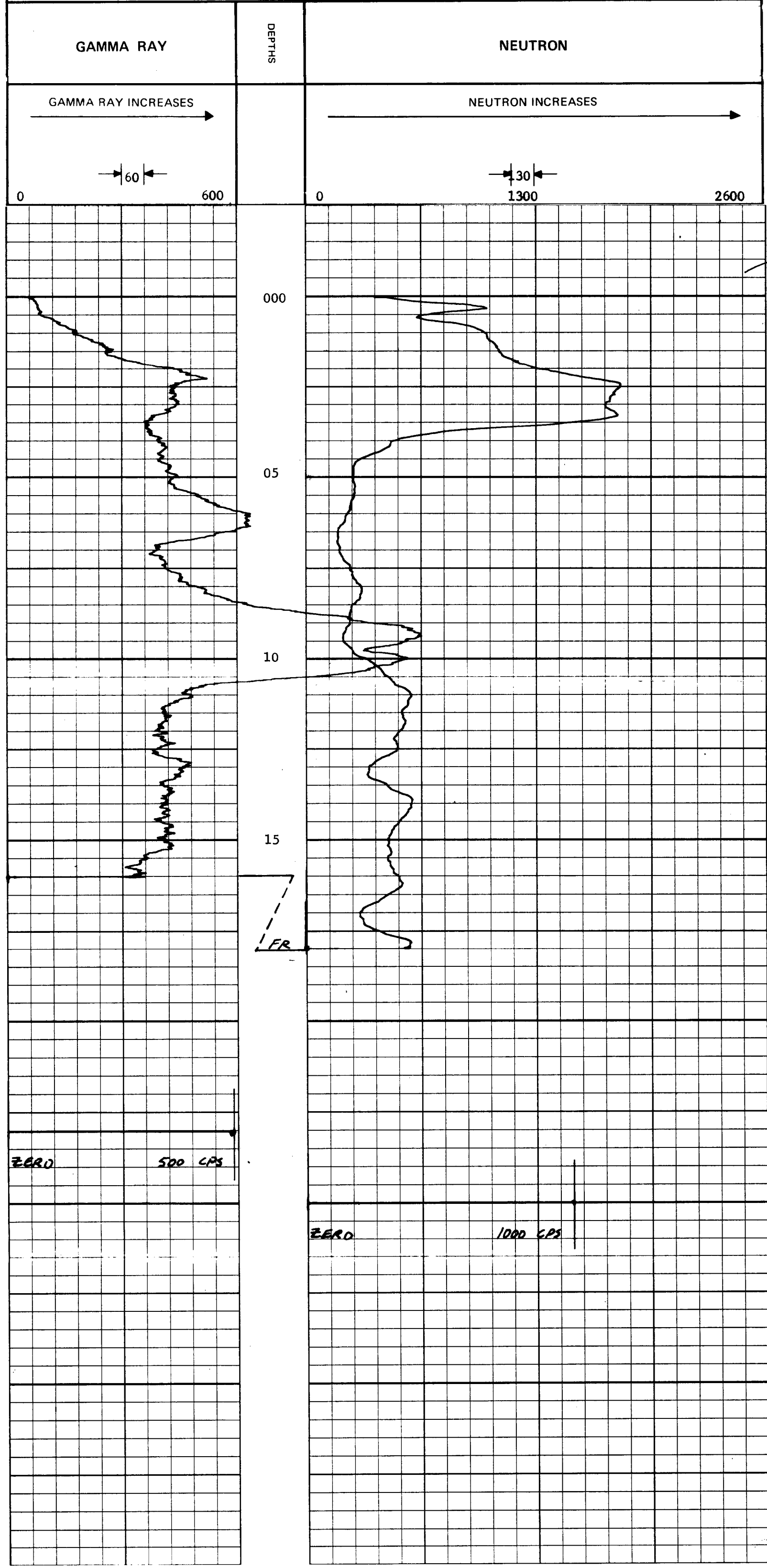
GAMMA RAY NEUTRON LOG  
 OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCHEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 203
SEC	LOCATION	2339.53 N -29.39 E
TWP	RGE	
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1338.65
	RIG FLOOR	.3 M Above Perm. Datum
	Log Measured from	K.B. 1338.65
	Well Depths Measured from	CSG 1338.65
		G.L. METRIC
Run No.	ONE	
Date	15 SEP 1978	
First Reading	18 M	
Last Reading	0	
Footage Logged	18	
Depth Reached	18.2	
Depth Driller	18.29	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 9F		
Operating Time	1/2 HOUR	
Truck No.	101	
Recorded By	KALUGGIN	Witnessed By
		TURNER

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

GENERAL		GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM TO	M/MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0 18	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



MINERAL RESOURCES DIVISION  
 ALBERTA ENERGY SERVICES  
 292  
 7131

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 204
SEC	LOCATION	2309.11 N, 0.32 E
TWP	RGE	
W	FIELD	BLIZZARD
M	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	Elev. 1334.34
Log Measured from	RIG FLOOR	.3 M Above Perm. Datum
Well Depths Measured from		G.L. 1334.34
		METRIC
Run No.	ONE	
Date	16 SEP 1978	
First Reading	31.5 M	
Last Reading	0	
Footage Logged	31.5	
Depth Reached	31.8	
Depth Driller	33.53	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	HQ	
Min. Diam.		
Rm @ 9F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGIN	Witnessed By
		TURNER

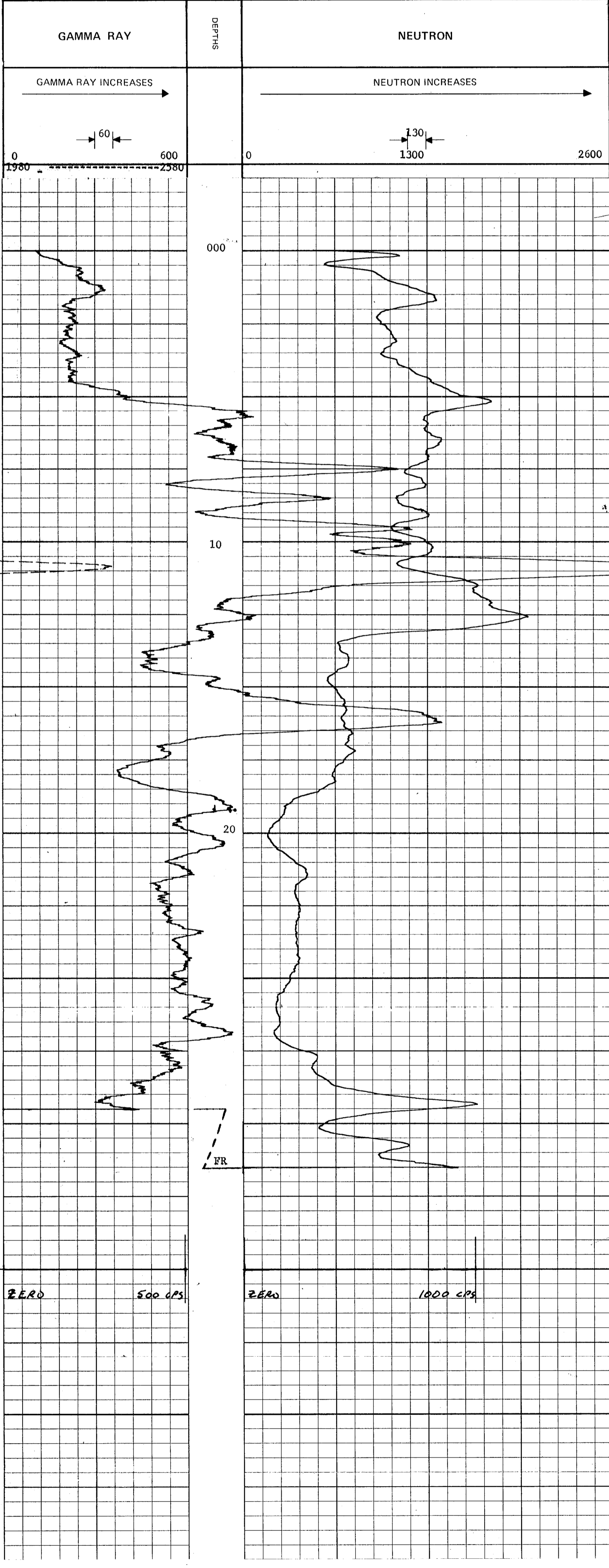
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	31.5	4	3	500	0	60	3	1000	0	130
	10.5	11.5	4	3	500	33 L	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



MINERAL RESOURCES DIVISION  
AGASSIS, ALBERTA  
7131  
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# ROKE

GAMMA RAY NEUTRON LOG  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC TWP RGE	WELL	78 - ND - 205
W	LOCATION	2309.95 N 61.42 E
	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	ELV. 1328.64
Low Measured from	RIG FLOOR	.3M Above Perm. Datum
Well Depth Measured from		
	K.A.	
	CSG	1328.64
	G.L.	
	METRIC	
Run No.	ONE	
Date	17 SEP 1978	
First Reading	12 M	
Last Reading	0	
Footage Logged	12	
Depth Reached	12.3	
Depth Driller	15.5	
Casing Driller		
Casing Roke		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

### EQUIPMENT DATA

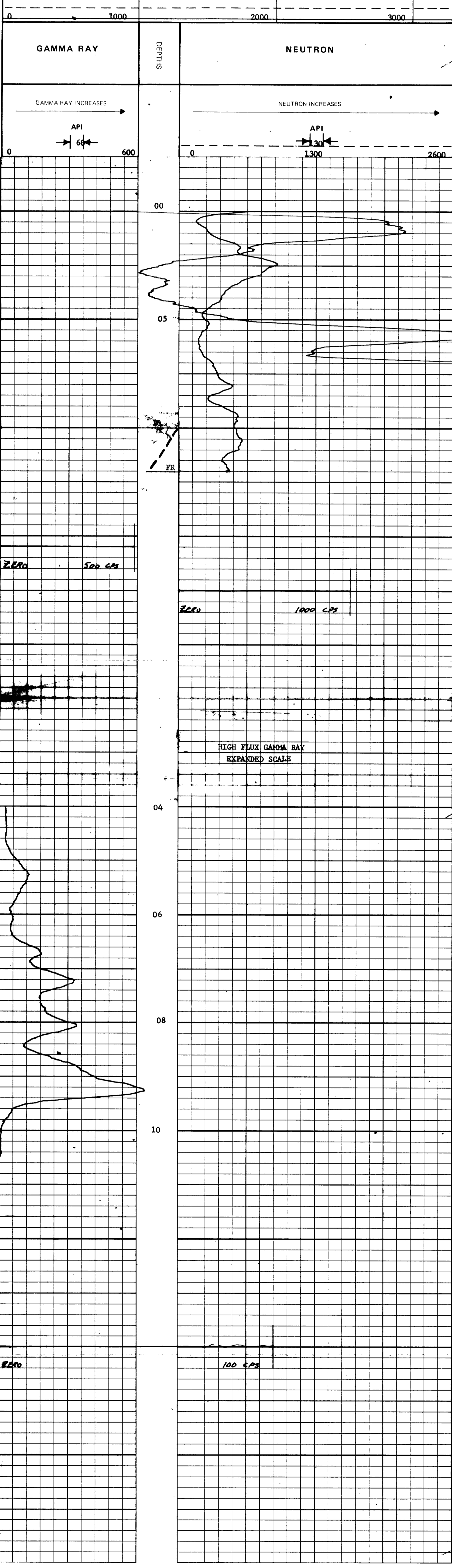
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURTES

### LOGGING DATA

GENERAL		GAMMA RAY				NEUTRON					
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	12	4	3	500	0	60	3	1000	0	130
1	04	10	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



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7131

# ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

## GAMMA RAY NEUTRON LOG HIGH FLUX GAMMA RAY

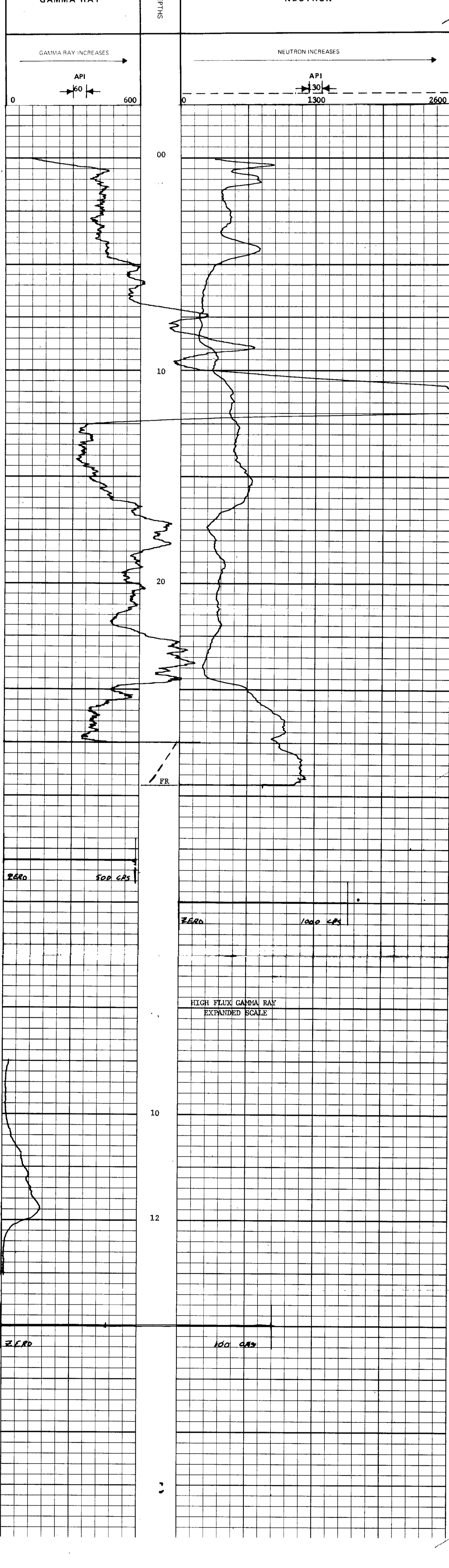
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 206
TWP	RGE	W
R	LOCATION	2280.07 N -0.21 E
M	FIELD	BLIZZARD
PROVINCE BRITISH COLUMBIA		
Perman. Datum	GROUND LEVEL	Elev. 1331.39
Can. Datum	RIG FLOOR 0.4 M Above Perm. Datum	K.B. _____
Well Depth Measured from _____		CSG _____
		G.L. 1331.39
		NEUTRON _____
Run No.	ONE	
Date	17 SEP 1978	
First Reading	29.5 M	
Last Reading	0	
Footage Logged	29.5	
Depth Reached	29.7	
Depth Driller	30.18	
Casing Driller		
Casing Roke		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALJUCIN	Witnessed By
		TURNER

EQUIPMENT DATA					
GAMMA RAY			NEUTRON		
RUN NO.	ONE			RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A002			LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM			TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION			DIAMETER	32 MM
SIZE	19 x 102 MM			LENGTH	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M			SOURCE MODEL NO	MRC-N-SS-W
<b>HIGH FLUX GAMMA RAY</b>					
RUN NO.	ONE			SERIAL NO.	256
TOOL MODEL NO.	HFCR 125 01			SPACING	43 CM
DIAMETER	32 MM			TYPE	AmBe
TYPE	SCINTILLATION			STRENGTH	3 CURTES
SIZE	13 x 13 MM				

LOGGING DATA											
GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	29.5	4	3	500	0	60	3	1000	0	130
1	9	13	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



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7131

# ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

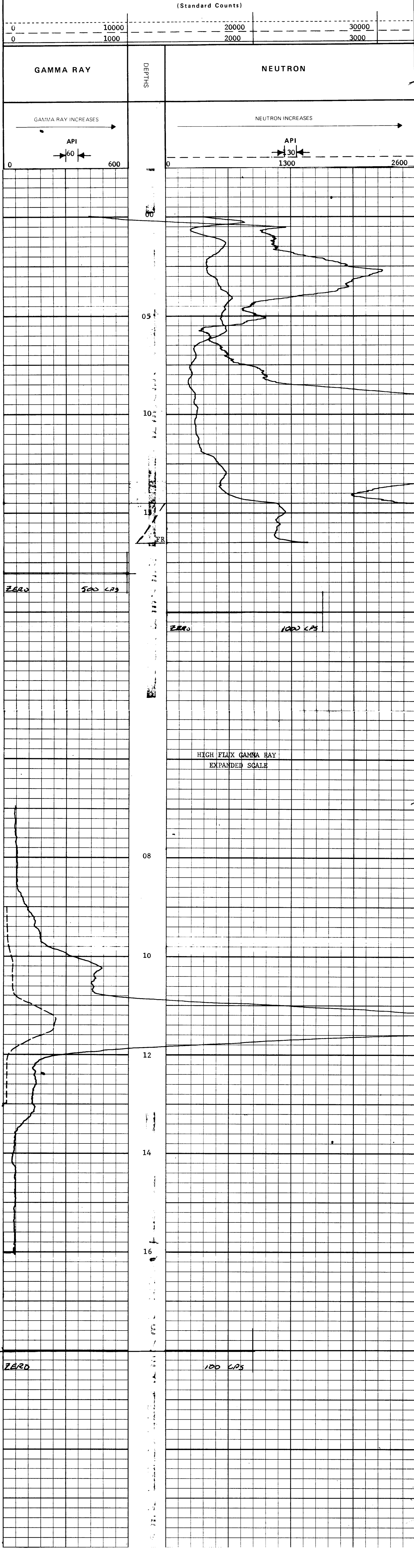
## GAMMA RAY NEUTRON LOG HIGH FLUX GAMMA RAY

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED	
LSD SEC	WELL	78 - ND - 207	
TWP	LOCATION	2341.49 N 61.41 E	
RGE	FIELD	BLIZZARD	
W	PROVINCE	BRITISH COLUMBIA	
	GROUND LEVEL	Elev. 1332.30	
	RIG FLOOR	0.3 M Above Perm Datum	
	Well Depths Measured from	K.B. _____ CSG _____ G.L. 1332.30 METRIC	
	Other Services:	NIL	
Run No.	ONE	Date	17 SEP 1978
First Reading	16.5 M	Last Reading	0
Footage Logged	16.5	Depth Reached	16.7
Depth Driller	16.76	Casing Hole	
Fluid Type	WATER	Liquid Level	FULL
Min. Diam.	HQ	Operating Time	1 HOUR
Truck No.	101	Recorded By	KALIGIN
		Witnessed By	TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED	T.C.	SENS	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	M/MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	16.5	4	3	500	0	60	3	1000	0	130
1	08	16	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		
1	09	13	1.5	3	1000	0	1000 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

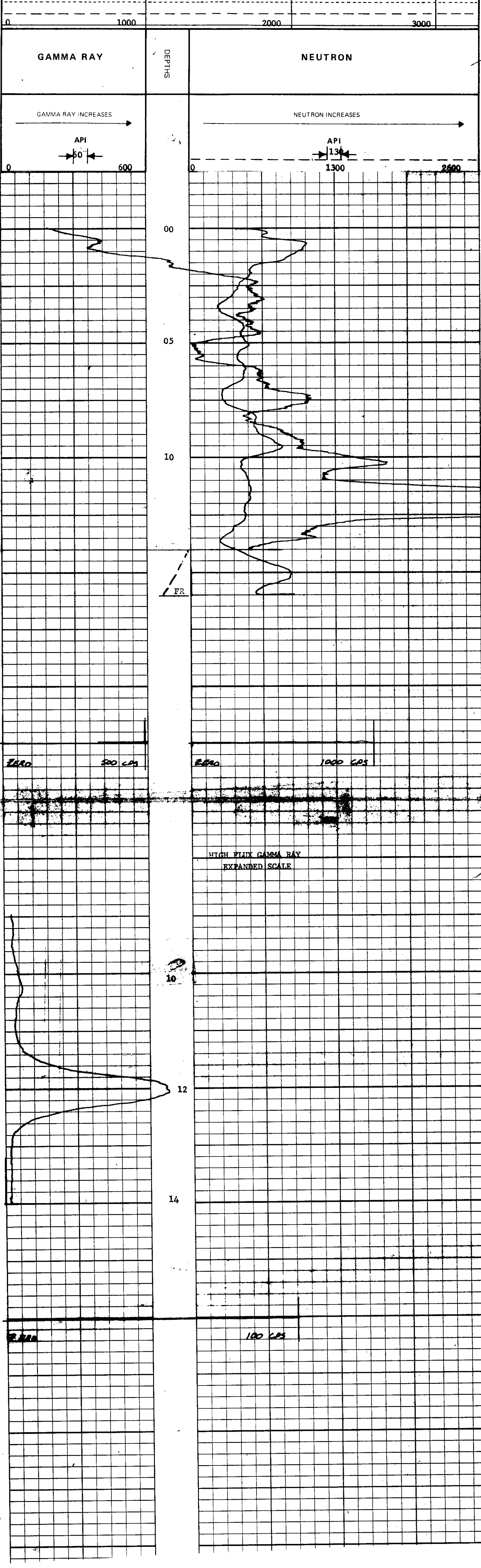
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 208
TWP	LOCATION	2279.75 N -29.49 E
RGE	FIELD	BIZZARD
W	PROVINCE	BRITISH COLUMBIA
M	PERMANENT DATUM	GROUND LEVEL Elev. 1333.09
	LOG MEASURED FROM	RIG FLOOR 0.3 M Above Perm Datum
	WELL DEPTHS MEASURED FROM	K.B. _____
		CSG 1333.09
		G.L. 1333.09
		METRE/C
Run. No.	ONE	
Date	17 SEP 1978	
First Reading	16 M	
Last Reading	0	
Footage Logged	16	
Depth Reached	16.4	
Depth Driller	16.76	
Casing Bore		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
Run No.	ONE	Run No.	ONE
Tool Model No.	R GRN 125A 002	Log Type	NEUTRON/NEUTRON
Diameter	32 MM	Tool Model No.	R GRN 125A 002
Type	SCINTILLATION	Diameter	32 MM
Size	19 x 102 MM	Type	PROPORTIONAL
Distance to N. Source	2 M	Length	152 MM
		Source Model No.	MRC-N-SS-W
		Serial No.	256
		Spacing	43 CM
		Type	AmBe
		Strength	3 CURTES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
Run No.	DEPTHS		SPEED	T.C.	SENS.	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	M / MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	16	3	3	500	0	60	3	1000	0	130
1	9	14	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY
REMARKS: LOGGED THROUGH HQ DRILL RODS											

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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7131

# ROKE

GAMMA RAY NEUTRON LOG  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

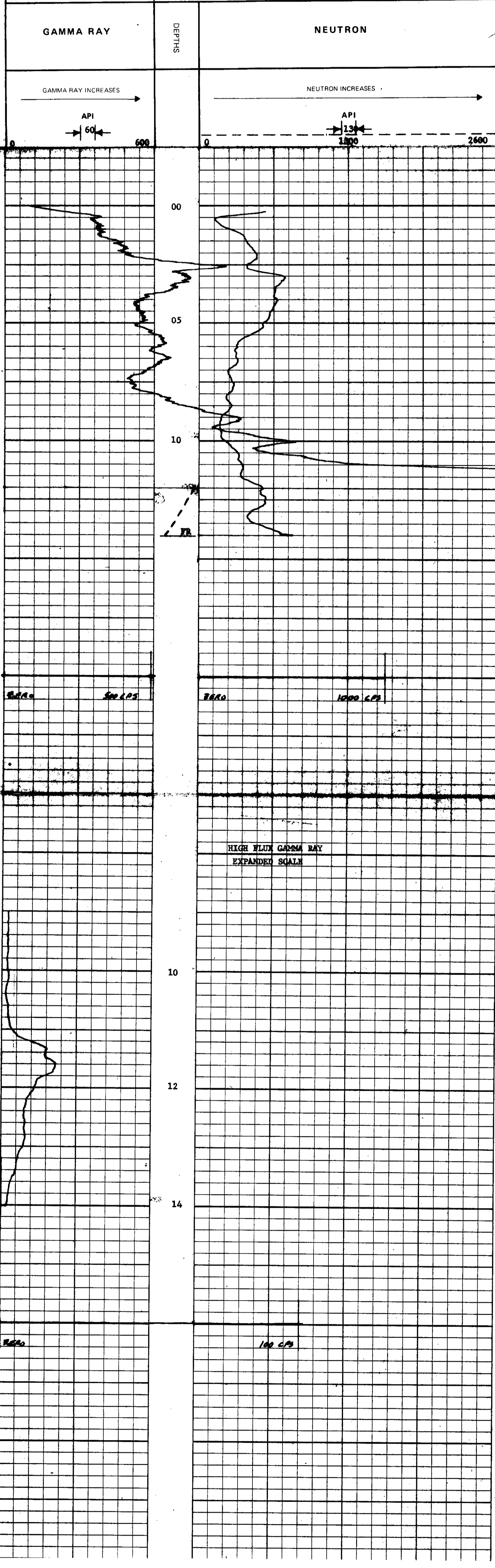
FILE NO.	COMPANY	WELL	LOCATION	FIELD	PROVINCE
USD SEC	NORSTON ENERGY RESOURCES LIMITED	78 - RD - 209	2971.11 N 61.19 E	BLIZZARD	BRITISH COLUMBIA
TWP					GROUND LEVEL
RGE					1334.85
N					Log Measured from
					KG TAPOR 0.3 M Above Perm. Datum
					CSG 1334.85
					Well Depth Measured from
					G.L. 1334.85
					METRIC
					Other Services:
Permanent Datum					
Log Measured from					
Well Depth Measured from					
Run No.	ONE	Date	18 SEP 1978		
First Reading	14 M				
Last Reading	0				
Footage Logged	14				
Depth Reached	14.3				
Depth Driller	16.15				
Casing Roke					
Casing Driller					
Fluid Type	WATER				
Liquid Level	FILL				
Min. Diam.	HQ				
Operating Time	1 HOUR				
Truck No.	101				
Recorded By	YASDORF	Witnessed By	TURNER		

EQUIPMENT DATA		GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE	LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.	R GRN 125A 002	TOOL MODEL NO.	R GRN 125A 002	DIAMETER	32 MM
DIAMETER	32 MM	DIAMETER	32 MM	TYPE	PROPORTIONAL
TYPE	SCINTILLATION	TYPE	SCINTILLATION	LENGTH	152 MM
SIZE	19 x 102 MM	SIZE	13 x 13 MM	SOURCE MODEL NO.	MRC-N-SS-W
DISTANCE TO N. SOURCE	2 M	SERIAL NO.	256	SPACING	43 CM
HIGH FLUX GAMMA RAY		TYPE	AmBa	STRENGTH	3 CURTES
RUN NO.	ONE				
TOOL MODEL NO.	HFGP 125 01				
DIAMETER	32 MM				
TYPE	SCINTILLATION				
SIZE	13 x 13 MM				

LOGGING DATA											
RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	14	4	3	500	0	60	3	1000	0	130
1	9	14	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



MINERAL PRODUCTION BRANCH  
ALBERTA  
NO. 7131  
2572



# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 210
SEC	LOCATION	2371.37 N 91.32 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	Other Services:	
Permanent Datum	GROUND LEVEL Elev.	1332.89
Log Measured from	RIG FLOOR 0.3M Above Perm. Datum	
Well Depths Measured from	K.B.	
	CSG	
	G.L.	1332.89
	METRIC	
Run. No.	ONE	
Date	18 SEP 1978	
First Reading	10 M	
Last Reading	0	
Footage Logged	10	
Depth Reached	10.1	
Depth Driller	10.05	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 9F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

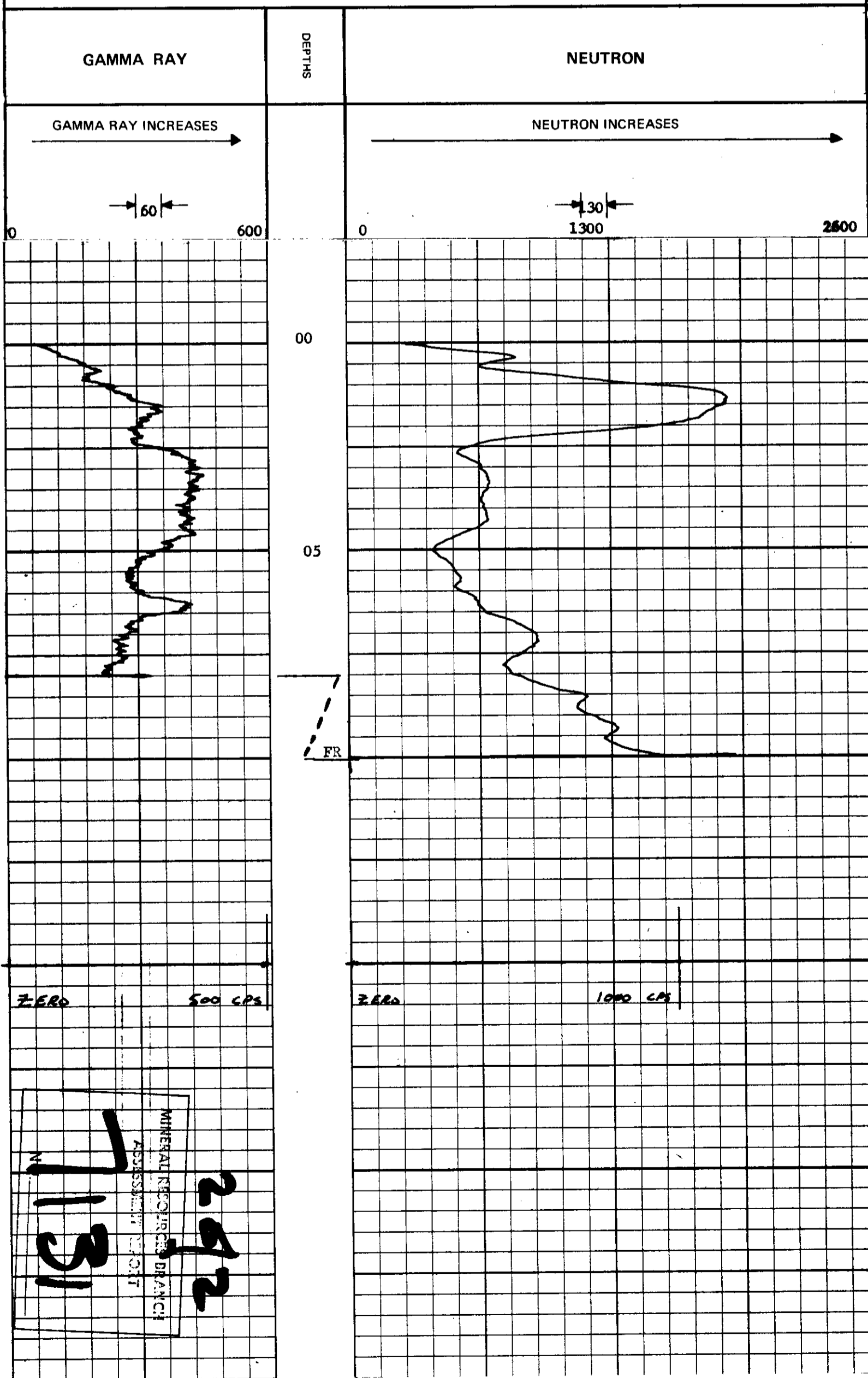
## EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	101		
INSTRUMENT TRUCK NO.	101		
TOOL SERIAL NO.	R GRN 125A 002		

## LOGGING DATA

GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		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.	
	FROM	TO									M/MIN
1	0	10	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
2672  
7131

# ROKE

GAMMA RAY NEUTRON LOG

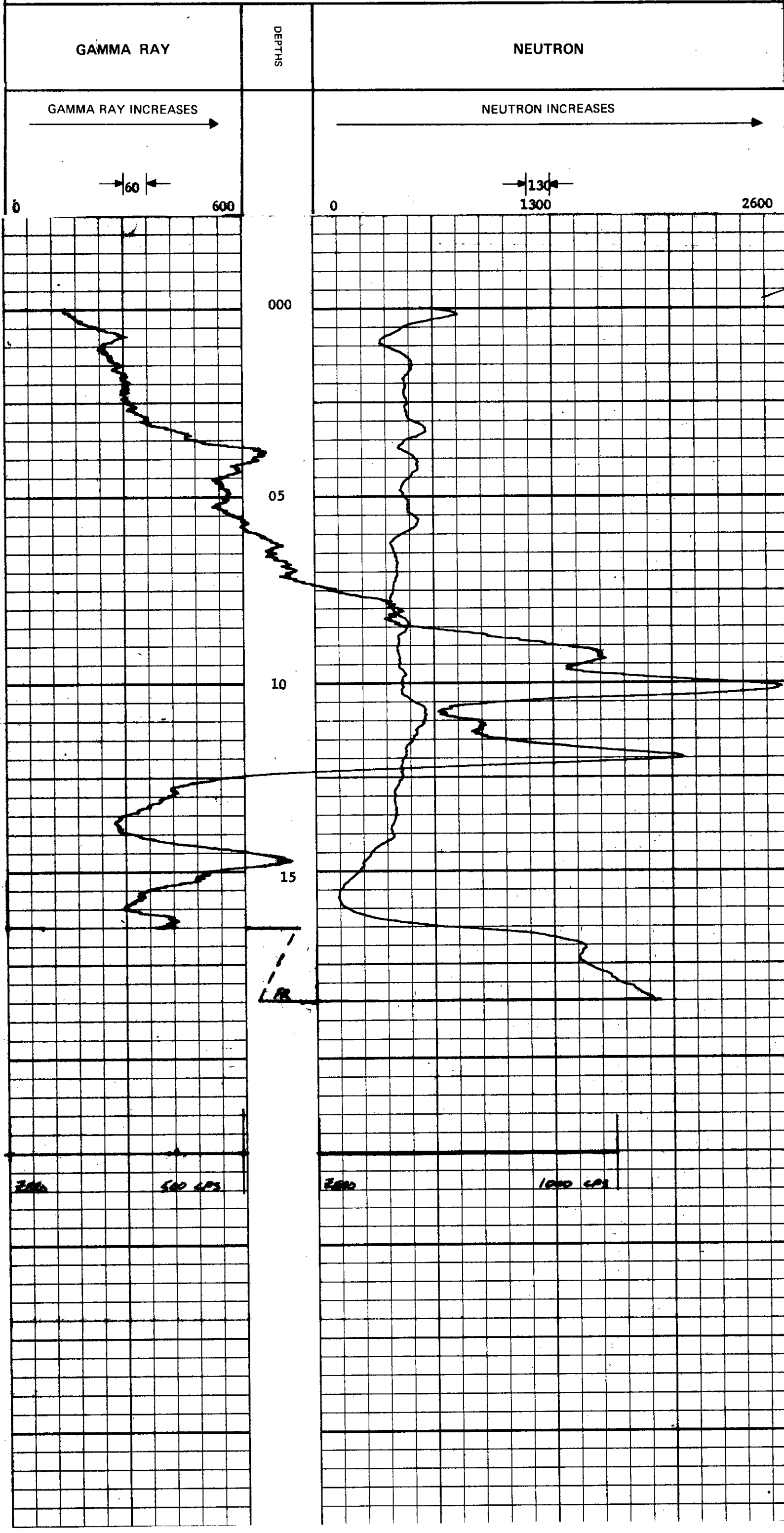
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC TWP RGE	WELL	78 - ND - 211
W	LOCATION	2249.70 N - 24.39 E
M	FIELD	BLIZZARD
PROVINCE	BRITISH COLUMBIA	Other Services:
Permanent Datum	GROUND LEVEL, Elev.	K. B. 1330.54
Log Measured from	RIG FLOOR 0.3 M above Perm. Datum	CSG G.L. 1330.54
Well Depths Measured from		METRIC
Run No.	ONE	
Date	18 SEP 1978	
First Reading	18.5 M	
Last Reading	0	
Footage Logged	18.5	
Depth Reached	18.7	
Depth Driller	20.1	
Casing Role		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 0f		
Operating Time	1 HOUR	
Truck No.	101	

EQUIPMENT DATA		GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE	LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.		TOOL MODEL NO.		DIAMETER	32 MM
DIAMETER	32 MM	DIAMETER		DETECTOR MODEL NO.	
DETECTOR MODEL NO.		DETECTOR MODEL NO.		TYPE	PROPORTIONAL
TYPE	SCINTILLATION	TYPE		LENGTH	152 MM
LENGTH	102 MM	LENGTH		SOURCE MODEL NO.	MRC-N-SS-W
DISTANCE TO N. SOURCE	2 M	SOURCE MODEL NO.		SERIAL NO.	256
		SERIAL NO.		SPACING	43 CM
HOIST TRUCK NO.	101	SPACING		TYPE	AmBe
INSTRUMENT TRUCK NO.	101	TYPE		STRENGTH	3 CURIES
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH			

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS	
	FROM	TO	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	
1	0	18.5	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
7131

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Recorded By: KALUGIN

Witnessed By: TURNER

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 212
SEC	LOCATION	2341.11 N 90.54 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	GROUND LEVEL	Elev. 1329.68
	RIG FLOOR	0.3M Above Perm. Datum
	Well Depths Measured from	G.L. 1329.68 METRIC
	Permanent Datum	
	Log Measured from	
	Other Services:	
Run No.	ONE	
Date	18 SEP 1978	
First Reading	12 M	
Last Reading	0	
Footage Logged	12	
Depth Reached	12.2	
Depth Driller	12.2	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 9f		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

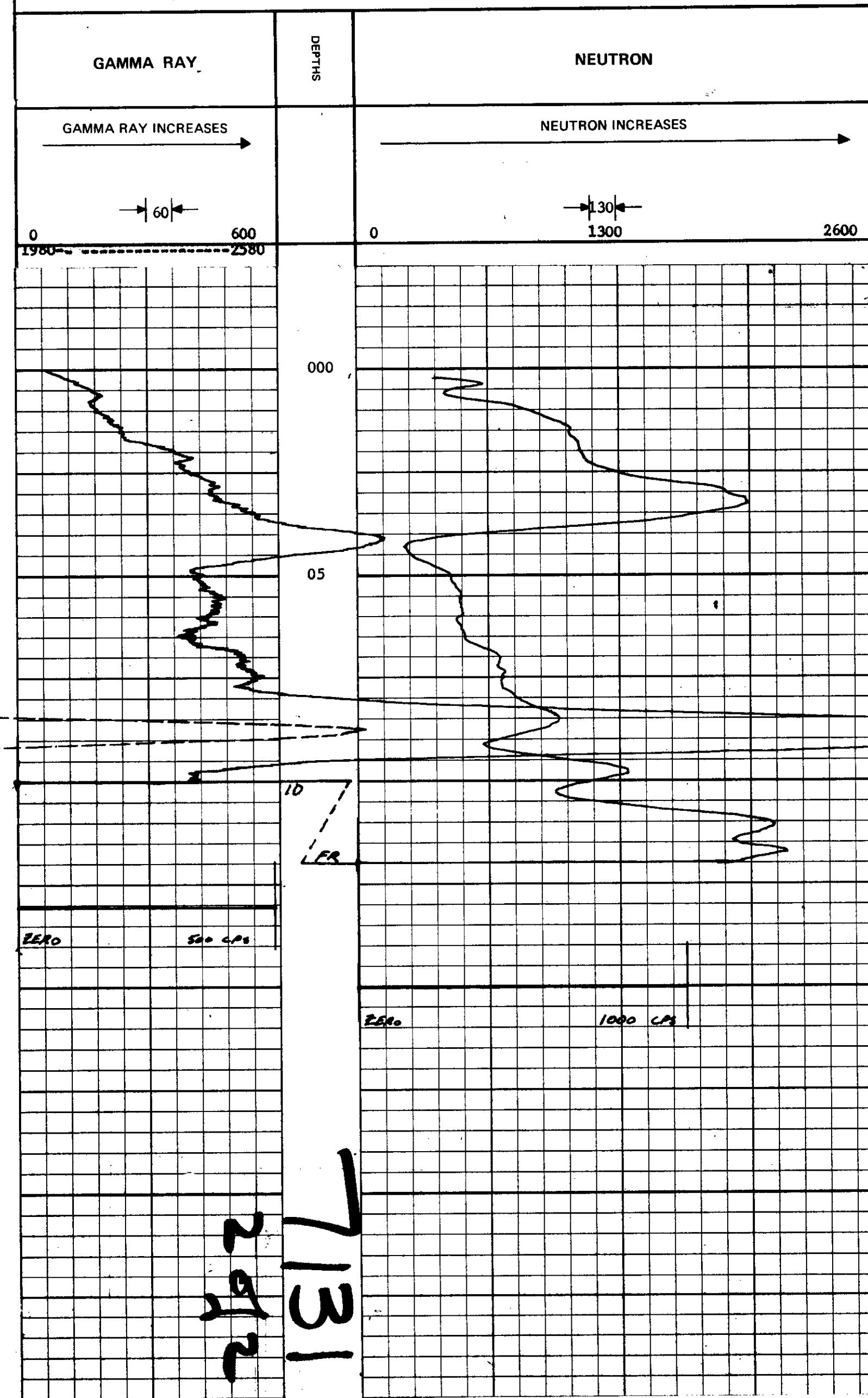
## EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
HOIST TRUCK NO.	101	TYPE	AmBe
INSTRUMENT TRUCK NO.	101	STRENGTH	3 CURIES
TOOL SERIAL NO.	R GRN 125A 002		

## LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	12	4	3	500	0	60	3	1000	0	130
	8.5	9.5	4	3	500	33 L	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 213
SEC	LOCATION	2249.54 N 4.98 E
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1328.76
Log Measured from	RIG FLOOR	0.3 M Above Perm. Datum
Well Depths Measured from		G.L. 1328.76 METRIC
Run. No.	ONE	
Date	19 SEP 1978	
First Reading	26 M	
Last Reading	0	
Footage Logged	26	
Depth Reached	26.7	
Depth Driller	27.13	
Casing Driller		
Fluid Type	WATER	
Liquid Level	WELL	
Min. Diam.	HQ	
Rm @ 9F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALINGIN	Witnessed By
		TURNER

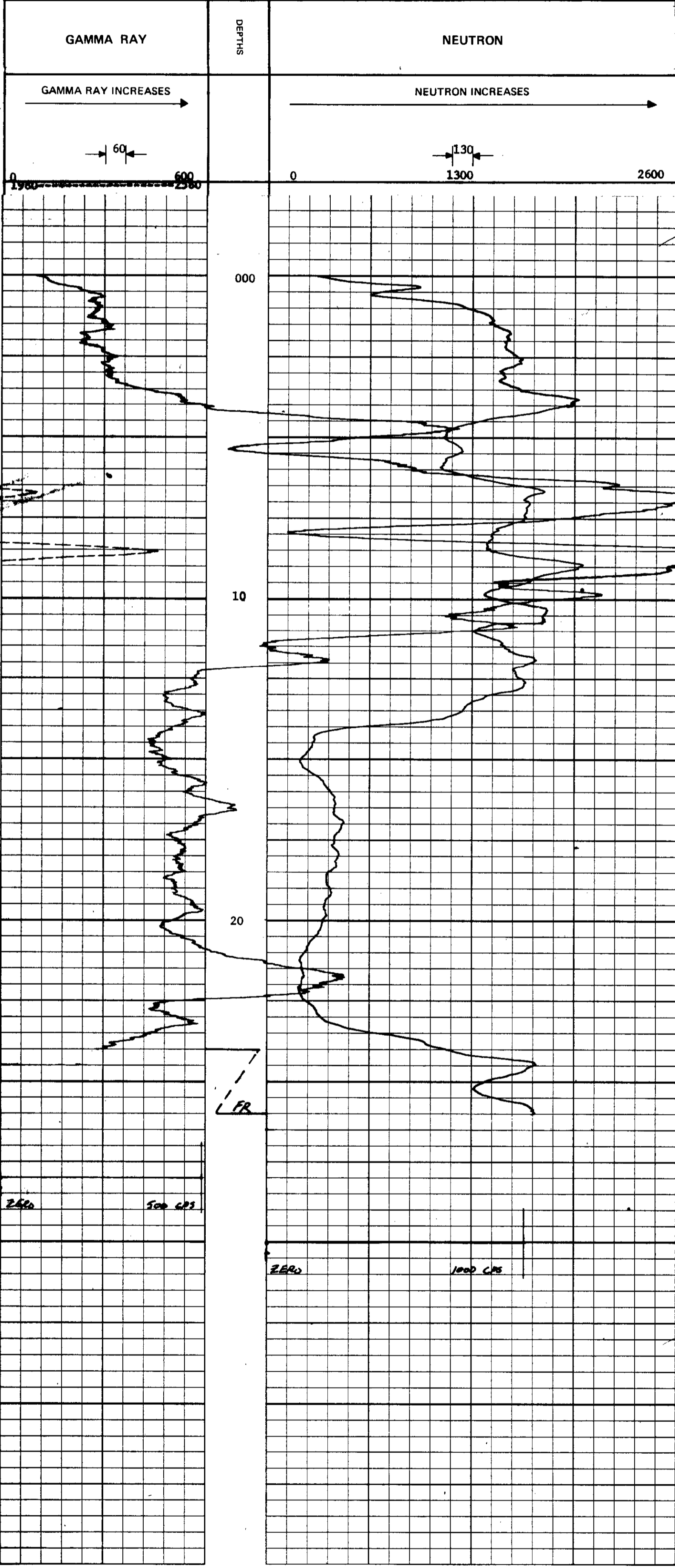
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURTES.

### LOGGING DATA

RUN NO.	GENERAL			GAMMA RAY				NEUTRON			
	DEPTHS FROM	DEPTHS TO	SPEED M/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	0	26	4	3	500	0	60	3	1000	0	130
1	6.5	9	4	3	500	33 L	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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7131

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 214
SEC	LOCATION	2310.19 N 90.97 E
TWP	RANGE	M
RGE	FIELD	BLIZZARD
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1326.80
Log Measured from	RIG FLOOR	0.3 M Above Perm. Datum
Well Depth Measured from	RIG FLOOR	G.L. 1326.80 METRIC
Other Services:		
Run. No.	ONE	
Date	21 SEP 1978	
First Reading	16.5 M	
Last Reading	0	
Footage Logged	16.5	
Depth Reached	16.6	
Depth Driller	16.76	
Casing Role		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HO	
Rm @ OF		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

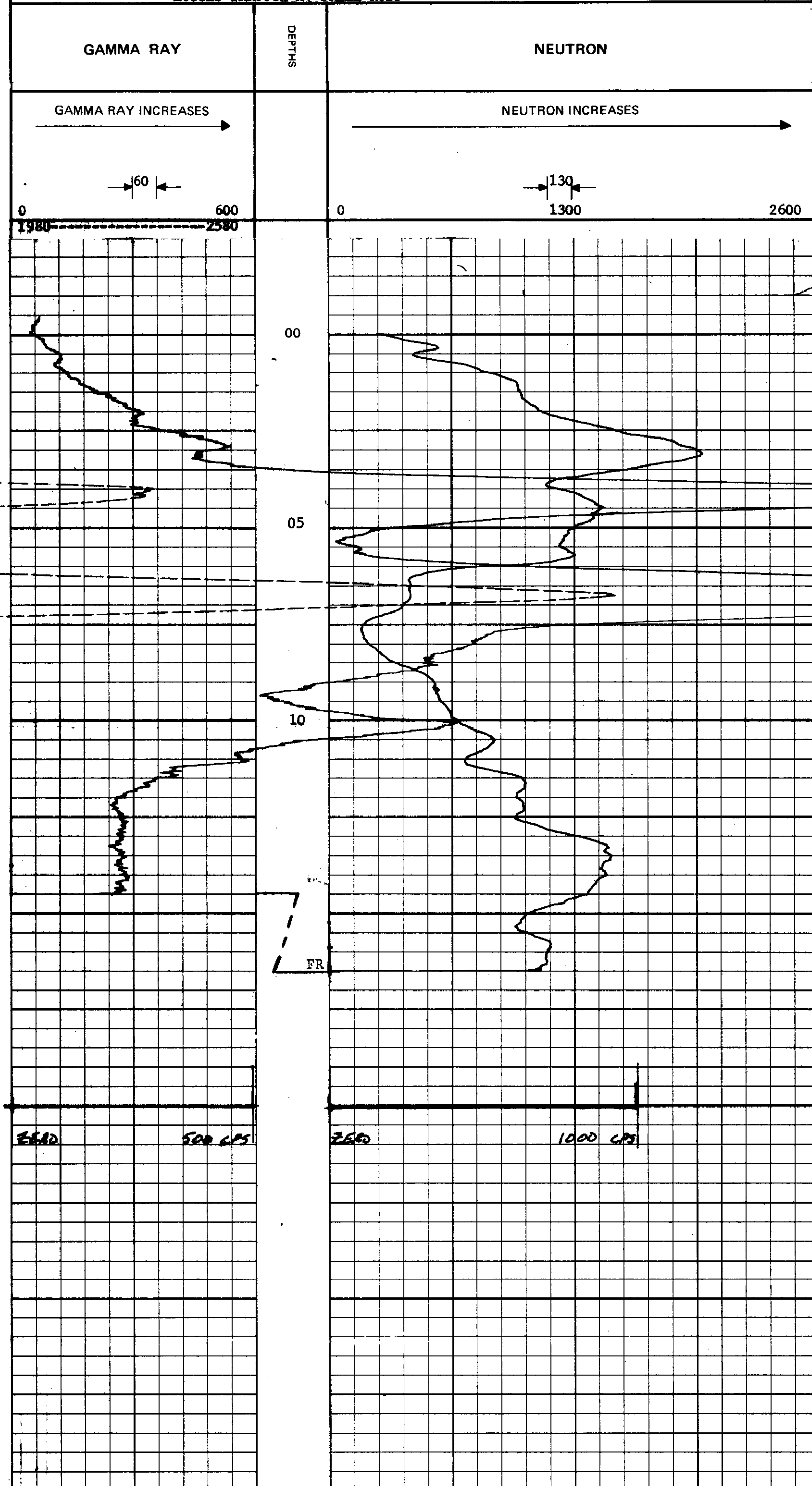
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

RUN NO.	DEPTHS		SPEED M/MIN	T.C. SEC.	SENS SETTINGS	GAMMA RAY		API G. R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	NEUTRON	
	FROM	TO				ZERO DIV. L OR R	ZERO DIV. L OR R				API N. UNITS PER LOG DIV.	
1	0	16.5	4	3	500	0		60	3	1000	0	130
1	3.5	7.5	4	3	500	33 L		60	3	1000	0	130

REMARKS: LOGGED THROUGH HO DRILL RODS



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7131

# ROKE

**GAMMA RAY NEUTRON LOG**  
**HIGH FLUX GAMMA RAY**

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. COMPANY NORGEN ENERGY RESOURCES LIMITED

WELL 78 - ND - 215

LOCATION 2279.25 N 30.61 E

FIELD BLIZZARD

PROVINCE BRITISH COLUMBIA

Permeant Datum GROUND LEVEL Elev. 1329.47

Log Measured from RIG FLOOR 0.3M Above Perm. Datum

Well Depth Measured from RIG FLOOR

Run No. ONE

Date 19 SEP 1978

First Reading 21.5 M

Last Reading 0

Footage Logged 21.5

Depth Reached 21.6

Depth Driller 21.64

Casing Rate

Casing Driller

Fluid Type WATER

Liquid Level FULL

Mn. Dam. HQ

Operating Time 1 HOUR

Truck No. 101

Recorded By KALUGIN

Witnessed By TURNER

### EQUIPMENT DATA

GAMMA RAY				NEUTRON			
Run No.	ONE	Run No.	ONE				
Tool Model No.	R GRN 125A 002	Log Type	NEUTRON/NEUTRON				
Diameter	32 MM	Tool Model No.	R GRN 125A 002				
Type	SCINTILLATION	Diameter	32 MM				
Size	19 x 102 MM	Type	PROPORTIONAL				
Distance to N. Source	2 M	Length	152 MM				
		Source Model No.	MRC-N-SS-W				
		Serial No.	256				
		Spacing	43 CM				
		Type	AmBe				
		Strength	3 CURIES				

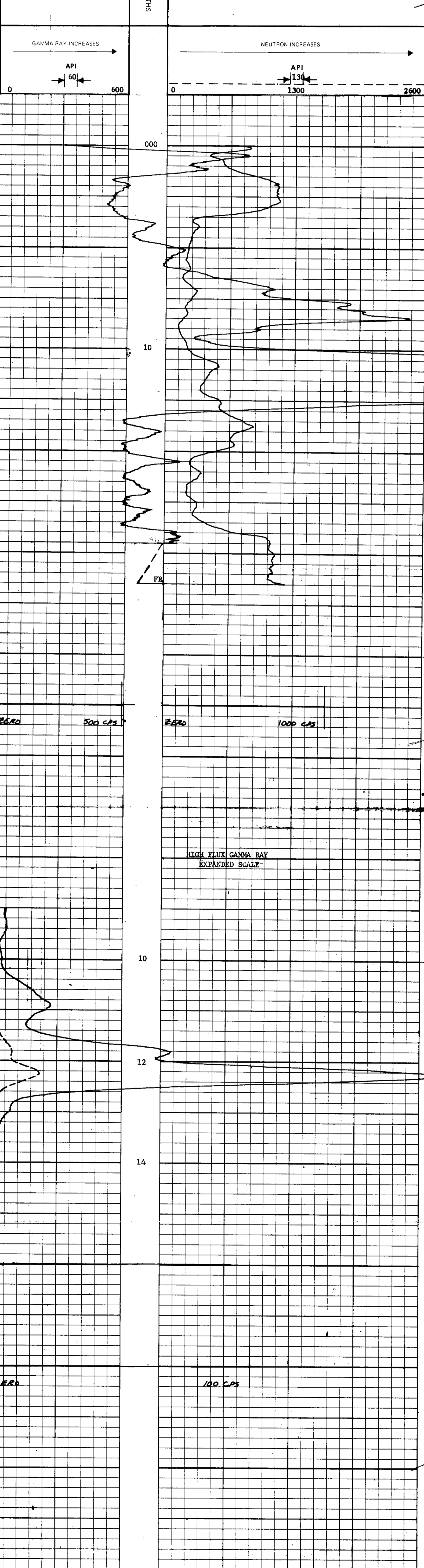
HIGH FLUX GAMMA RAY			
Run No.	ONE		
Tool Model No.	HFGR 125 01		
Diameter	32 MM		
Type	SCINTILLATION		
Size	13 x 13 MM		

### LOGGING DATA

Run No.	General		Gamma Ray				Neutron				
	From	To	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	0	21.5	4	3	500	0	60	3	1000	0	130
1	9	14	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		
	11.2	13	1.5	3	1000	0	1000 CPS		HIGH FLUX GAMMA RAY		

REMARKS LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

GAMMA RAY NEUTRON LOG  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

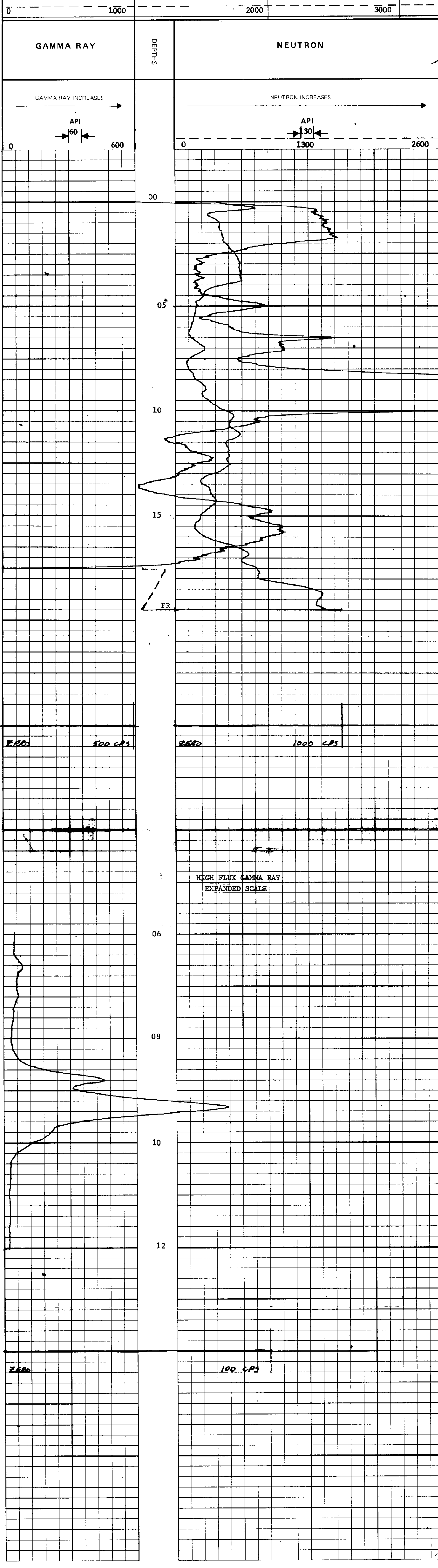
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 216
TWP	LOCATION	2248.88 N 36.36 E
RGE	W	M
FIELD	BLIZZARD	Other Services:
PROVINCE	BRITISH COLUMBIA	
Perman. Datum	GROUND LEVEL	Elev. 1326.65
Log Measured from	RIG FLOOR	.35 M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	C.S.G. 1326.65 METRIC
Run No.	ONE	
Date	20 SEP 1978	
First Reading	19.5 M	
Last Reading	0	
Footage Logged	19.5	
Depth Reached	19.6	
Depth Driller	20.12	
Casing Role		
Casing Driller	WATER	
Fluid Type	FULL	
Liquid Level	HQ	
Mm. Diam.		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED	T.C	SENS	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	M / MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	19.5	4	3	500	0	60	3	1000	0	130
1	6	12	1.5	3	100	0	100 CFS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 217
TWP	LOCATION	2220.18 N 30.61 E
RGE		
W. M.	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	Elev. 1325.11
Log Measured from	RIG FLOOR	0.35 M above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1325.11 METRIC
Run No.	ONE	
Date	20 SEP 1978	
First Reading	16.5 M	
Last Reading	0	
Footage Logged	16.5	
Depth Reached	16.6	
Depth Driller	17.05	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ OF		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGSTN	Witnessed By
		TURNER

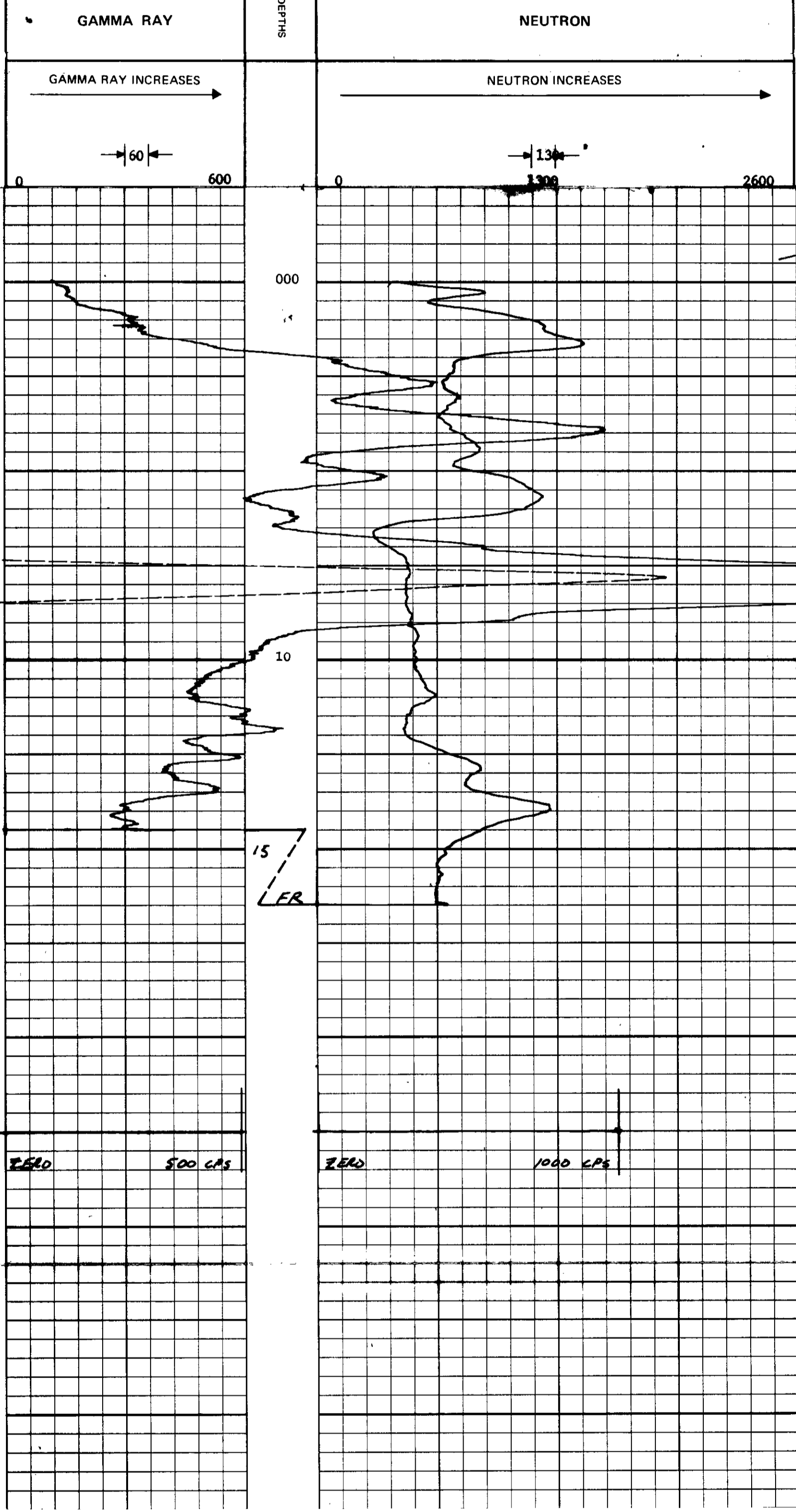
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M. 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	0	16.5	4	3	500	0	60	3	1000	0	130
1	7.0	8.5	4	3	500	33 L	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

**GAMMA RAY NEUTRON LOG**  
HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

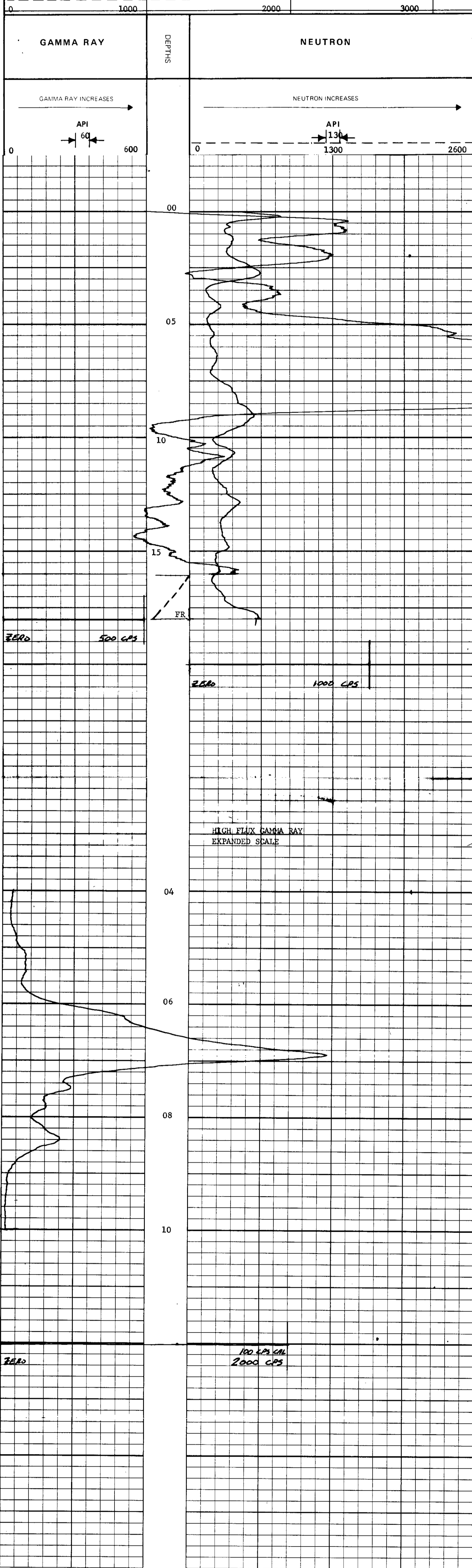
FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
WELL	78 - ND - 218	
LOCATION	2281.32 N 61.18 E	
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1326.57
Log Measured from	RIG FLOOR 0.3 M	Above Perm. Datum
Well Depth Measured from	RIG FLOOR	SEC. 1326.57
		SECURITY
Run No.	ONE	
Date	21 SEP 1978	
First Reading	18 M	
Last Reading	0	
Footage Logged	18	
Depth Reached	18.3	
Depth Driller	18.3	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGAN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
<b>HIGH FLUX GAMMA RAY</b>		SERIAL NO.	256
RUN NO.	ONE	SPACING	43 CM
TOOL MODEL NO.	HFGR 125 01	TYPE	AmBe
DIAMETER	32 MM	STRENGTH	3 CURIES
TYPE	SCINTILLATION		
SIZE	13 x 13 MM		

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED	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.
	FROM	TO	M / MIN								
1	0	18	4	3	500	0	60	3	1000	0	130
1	4	10	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

## GAMMA RAY NEUTRON LOG HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 219
SEC	LOCATION	2219.76 N 60.75 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRTISH COLUMBIA
W	GROUND LEVEL	Elev. 1322.46
	Log Measured from	RIG FLOOR 0.3 M Above Perm. Datum
	Well Depth Measured from	RIG FLOOR
	Other Services:	K.B. _____ C.S.G. _____ G.L. 1322.46 METRIC
Run No.	ONE	
Date	21 SEP 1978	
First Reading	11.5 M	
Last Reading	0	
Footage Logged	11.5	
Depth Reached	12.1	
Depth Driller	13.4	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Dam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

### EQUIPMENT DATA

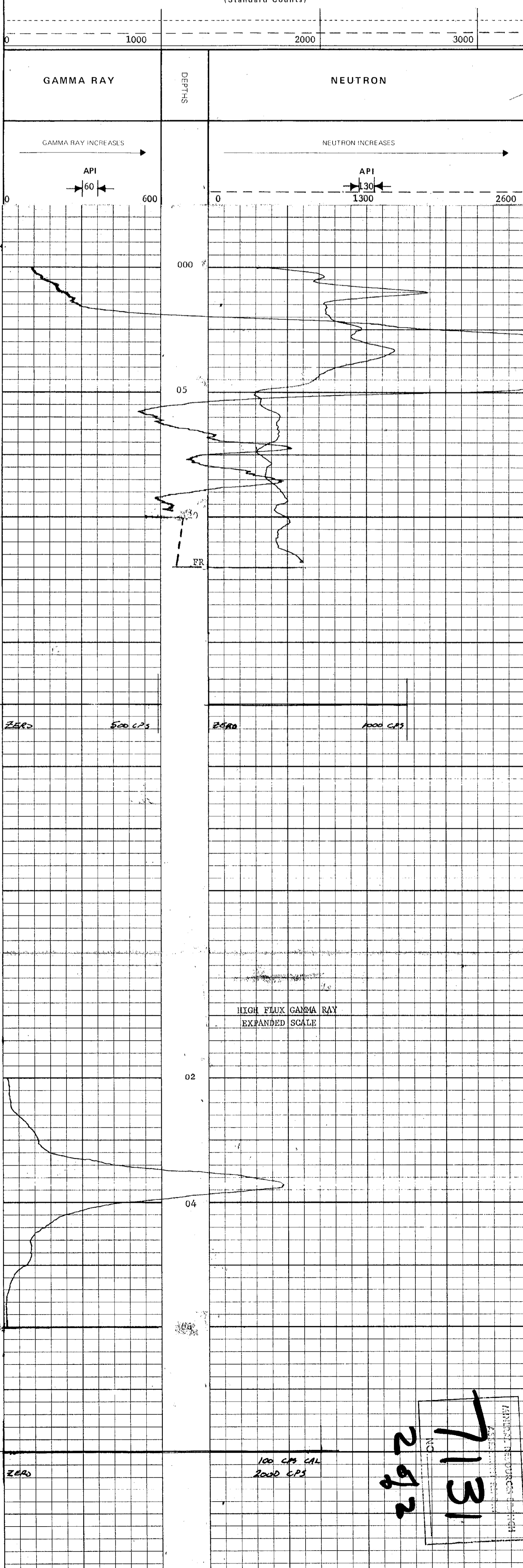
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
<b>HIGH FLUX GAMMA RAY</b>		SERIAL NO.	256
RUN NO.	ONE	SPACING	43 CM
TOOL MODEL NO.	HFCR 125 01	TYPE	AmBe
DIAMETER	32 MM	STRENGTH	3 CURIES
TYPE	SCINTILLATION		
SIZE	13 x 13 MM		

### LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	DEPTHS		SPEED	T.C.	SENS.	ZERO	API G.R. UNITS	T.C.	SENS.	ZERO	API N. UNITS
	FROM	TO	M/MIN	SEC.	SETTINGS	DIV L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	11.5	4	3	500	0	60	3	1000	0	130
1	02	06	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY

REMARKS: LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



# ROKE

**GAMMA RAY NEUTRON LOG**  
**HIGH FLUX GAMMA RAY**

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 220
TWP RGE	LOCATION	2281.10 N 90.93 E
W	FIELD	BLIZZARD
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1324.92
Log Measured from	RIG FLOOR	0.3M Above Perm. Datum
Wdr. Depth Measured from	RIG FLOOR	G.L. 1324.92
		K.B. _____
		CSG _____
		G.L. 1324.92
		METRIC
Run No.	ONE	
Date	21 SEP 1978	
First Reading	12.5 M	
Last Reading	0	
Footage Logged	12.5	
Depth Reached	12.6	
Depth Driller	13.1	
Casing Role		
Casing Driller	WALTER	
Fluid Type	BULL	
Liquid Level	HQ	
Min. Diam.		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KATJGIN	Witnessed By
		TUNNER

**EQUIPMENT DATA**

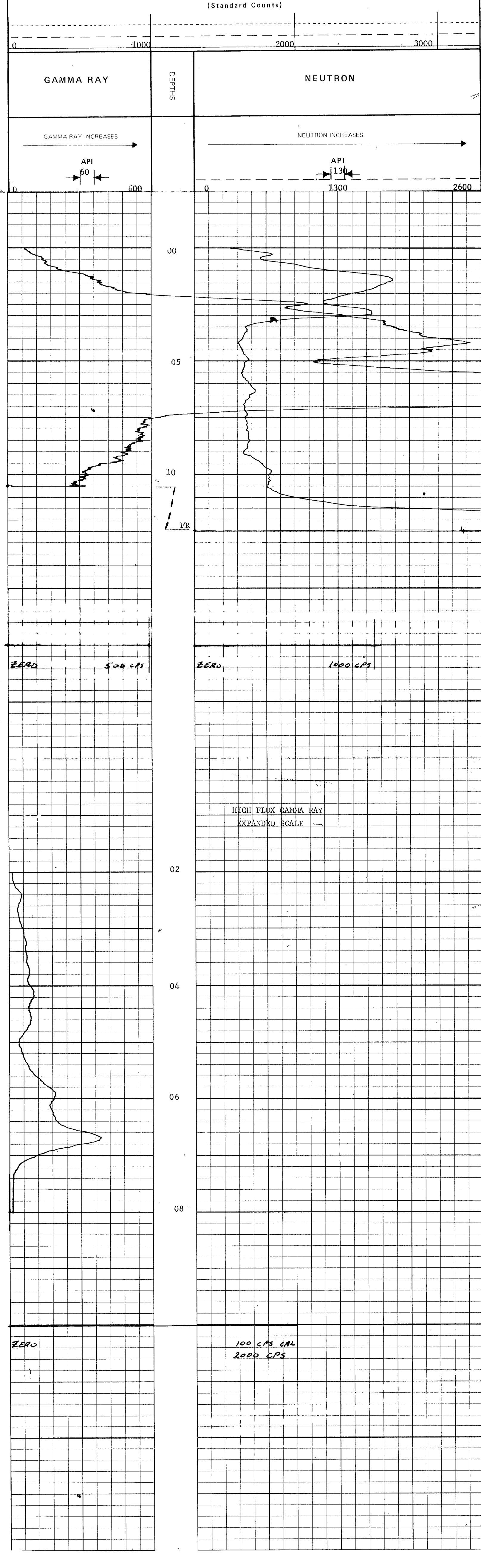
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
<b>HIGH FLUX GAMMA RAY</b>		SOURCE MODEL NO.	MRC-N-SS-W
RUN NO.	ONE	SERIAL NO.	256
TOOL MODEL NO.	HFGR 125 01	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURIES
SIZE	13 x 13 MM		

**LOGGING DATA**

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	12.5	4	3	500	0	60	3	1000	0	130
1	2	8	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS: LOGGED THROUGH HQ DRILL RODS

**HIGH FLUX GAMMA RAY LOG**  
(Standard Counts)



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7131

# ROKE

**GAMMA RAY NEUTRON LOG**  
**HIGH FLUX GAMMA RAY**

OIL ENTERPRISES LTD. CALGARY, ALBERTA

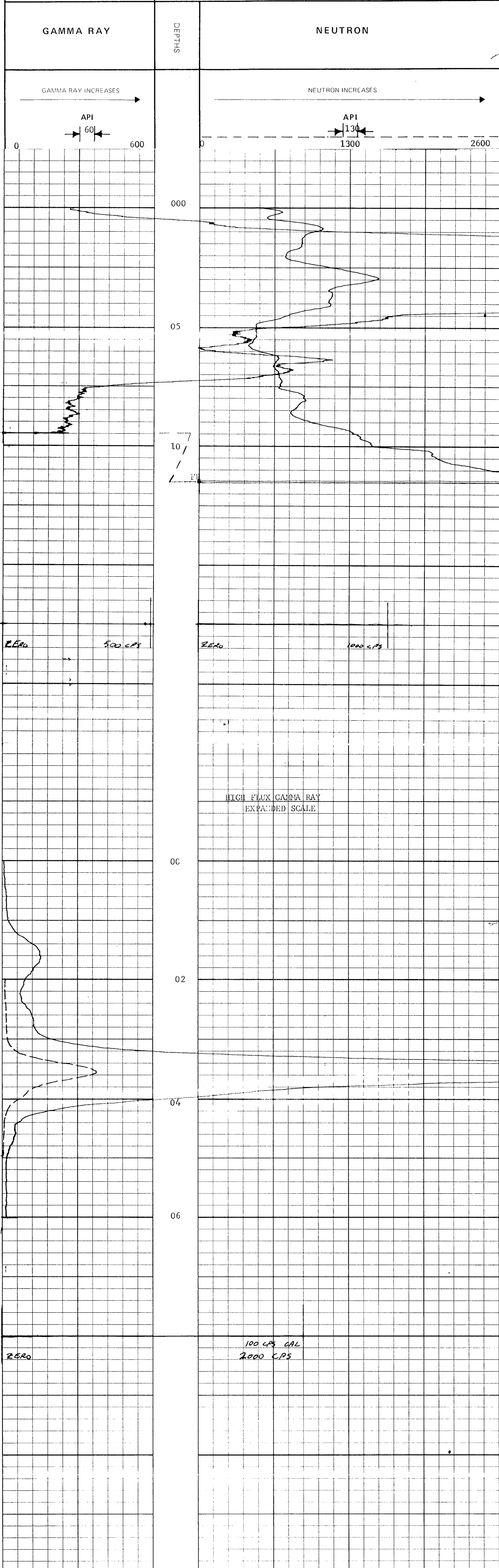
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 221
TWP	LOCATION	2189.61 N 59.54 E
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	Other Services:	
	Permit: Datum	GROUND LEVEL Elev. 1320.25
	Log Measured from	RIG FLOOR 0.31 Above Perm. Datum
	Net Depth Measured from	RIG FLOOR
		K.B. _____
		CSG _____
		G.L. 1320.25
		METRIC
Run No.	ONE	
Date	21 SEP 1978	
First Reading	11.5 M	
Last Reading	0	
Footage Logged	11.5	
Depth Reached	11.6	
Depth Driller	11.6	
Casing Role		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
Run No.	ONE	Run No.	ONE
Tool Model No.	R GRN 125A 002	Log Type	NEUTRON/NEUTRON
Diameter	32 MM	Tool Model No.	R GRN 125A 002
Type	SCINTILLATION	Diameter	32 MM
Size	19 x 102 MM	Type	PROPORTIONAL
Distance to N. Source	2 M	Length	152 MM
		Source Model No.	MRC-N-SS-W
		Serial No.	256
HIGH FLUX GAMMA RAY			
Run No.	ONE	Spacing	43 CM
Tool Model No.	HFCR 125 01	Type	AmBe
Diameter	32 MM	Strength	3 CURIES
Type	SCINTILLATION		
Size	13 x 13 MM		

LOGGING DATA											
Run No.	General		Speed, M/Min	T.C. Sec.	Gamma Ray			Neutron			
	From	To			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	0	11.5	4	3	500	0	60	3	1000	0	130
1	0	6	1.5	3	100	0	100 CPS				HIGH FLUX GAMMA RAY
	2	5	1.5	3	1000	0	1000 CPS				HIGH FLUX GAMMA RAY

REMARKS: LOGGED THROUGH HQ DRILL RODS

## HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 223
SEC	LOCATION	2161.51 N 59.90 E
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1319.03
Log Measured from	RIG FLOOR	.3 M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1319.03
Other Services:		
Run. No.	ONE	
Date	22 SEP 1978	
First Reading	13 M	
Last Reading	0	
Footage Logged	13	
Depth Reached	13.1	
Depth Driller	12.8	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 0F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

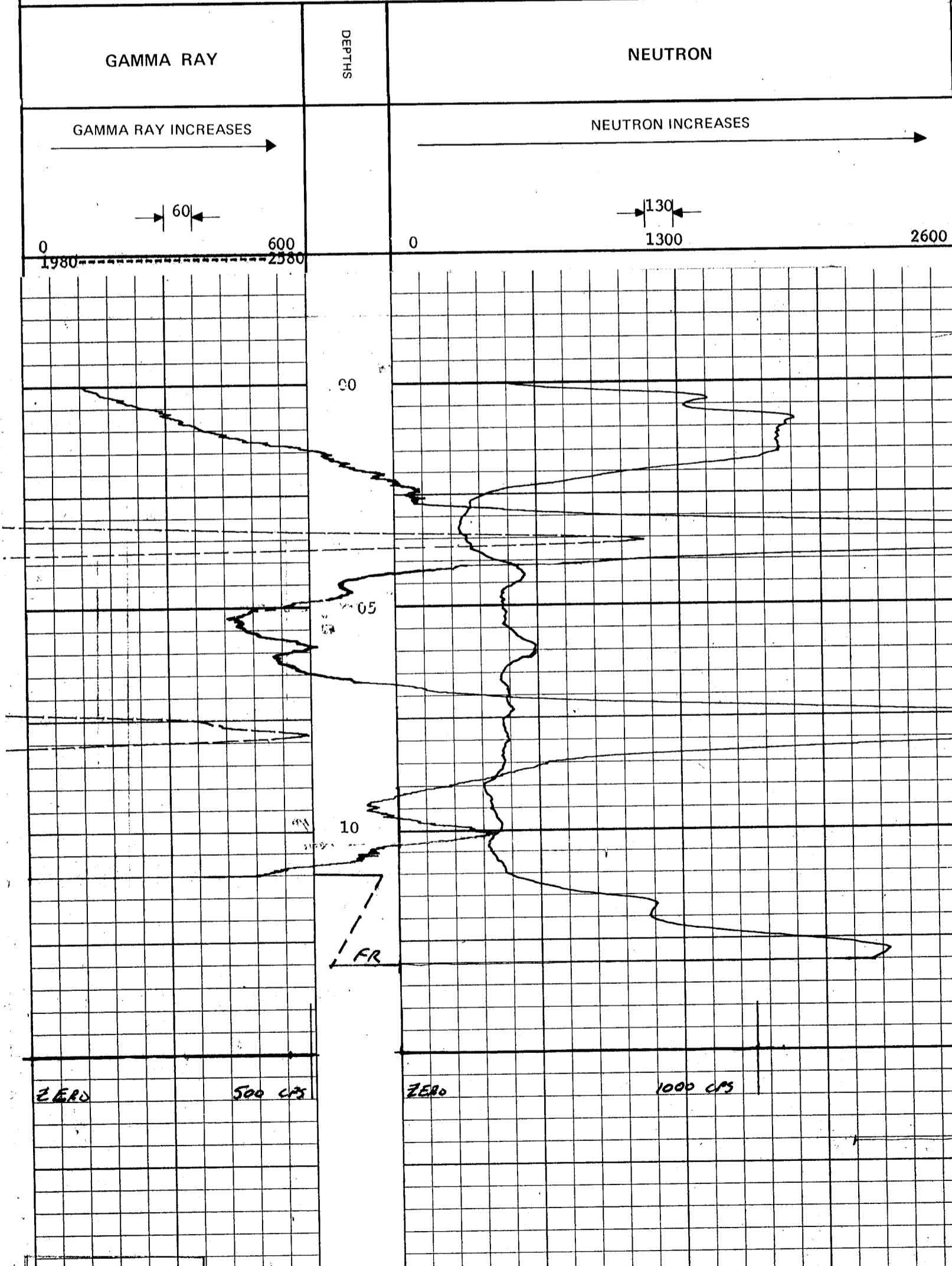
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	101		
INSTRUMENT TRUCK NO.	101		
TOOL SERIAL NO.	R GRN 125A 002		

### LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	13	4	3	500	0	60	3	1000	0	130
	3	8.5	4	3	500	33 L	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



MINIMUM RESOLUTION

# ROKE

## GAMMA RAY NEUTRON LOG HIGH FLUX GAMMA RAY

OIL ENTERPRISES LTD. CALGARY, ALBERTA

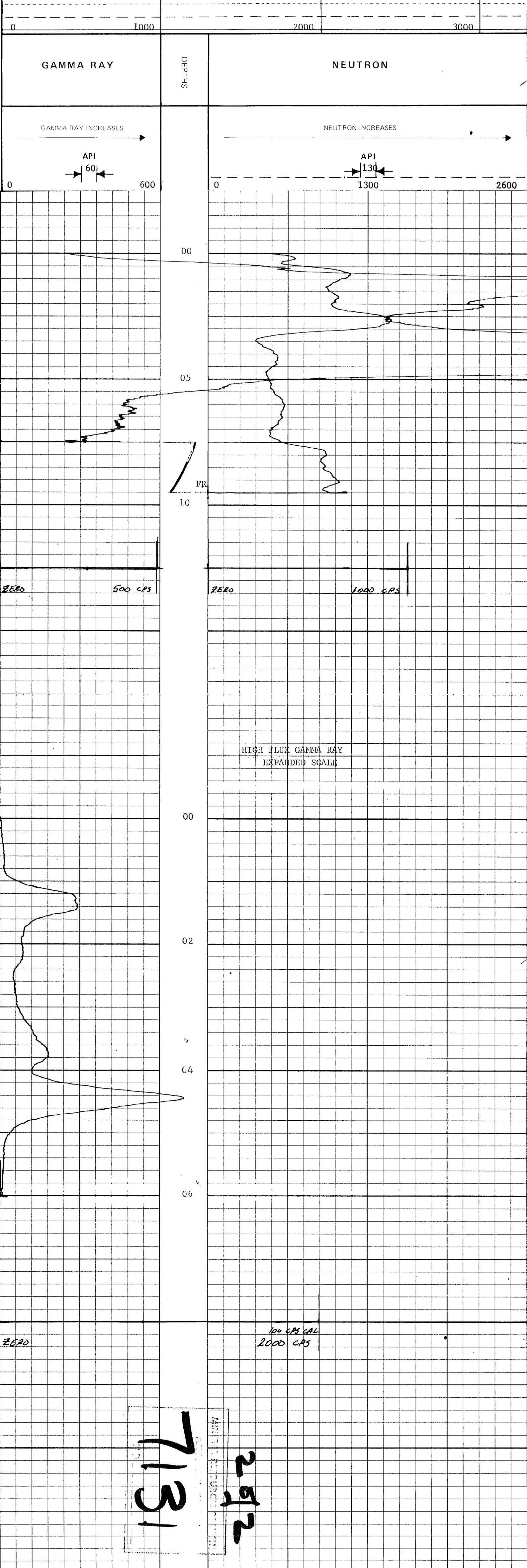
FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 225
SEC	LOCATION	2218.99 N 90.53 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	GROUND LEVEL Elev.	1319.50
	RIG FLOOR	.3M Above Perm Datum
	RIG FLOOR	6.1 1319.50
	Well Depths Measured from	METRIC
Run No.	ONE	
Date	22 SEP 1978	
First Reading	9.5 M	
Last Reading	0	
Footage Logged	9.5	
Depth Reached	9.9	
Depth Driller	10.06	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGIN	Witnessed By
		TURNER

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	R GRN 125A 002	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	R GRN 125A 002
TYPE	SCINTILLATION	DIAMETER	32 MM
SIZE	19 x 102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
HIGH FLUX GAMMA RAY		SOURCE MODEL NO	MRC -N-SS-W
RUN NO.	ONE	SERIAL NO.	256
TOOL MODEL NO.	HFGGR 125 01	SPACING	43 CM
DIAMETER	32 MM	TYPE	AmBe
TYPE	SCINTILLATION	STRENGTH	3 CURTES
SIZE	13 x 13 MM		

LOGGING DATA											
GENERAL			GAMMA RAY					NEUTRON			
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	9.5	4	3	500	0	60	3	1000	0	130
1	0	06	1.5	3	100	0	100 CPS		HIGH FLUX GAMMA RAY		

REMARKS LOGGED THROUGH HQ DRILL RODS

### HIGH FLUX GAMMA RAY LOG (Standard Counts)



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# ROKE

GAMMA RAY NEUTRON LOG

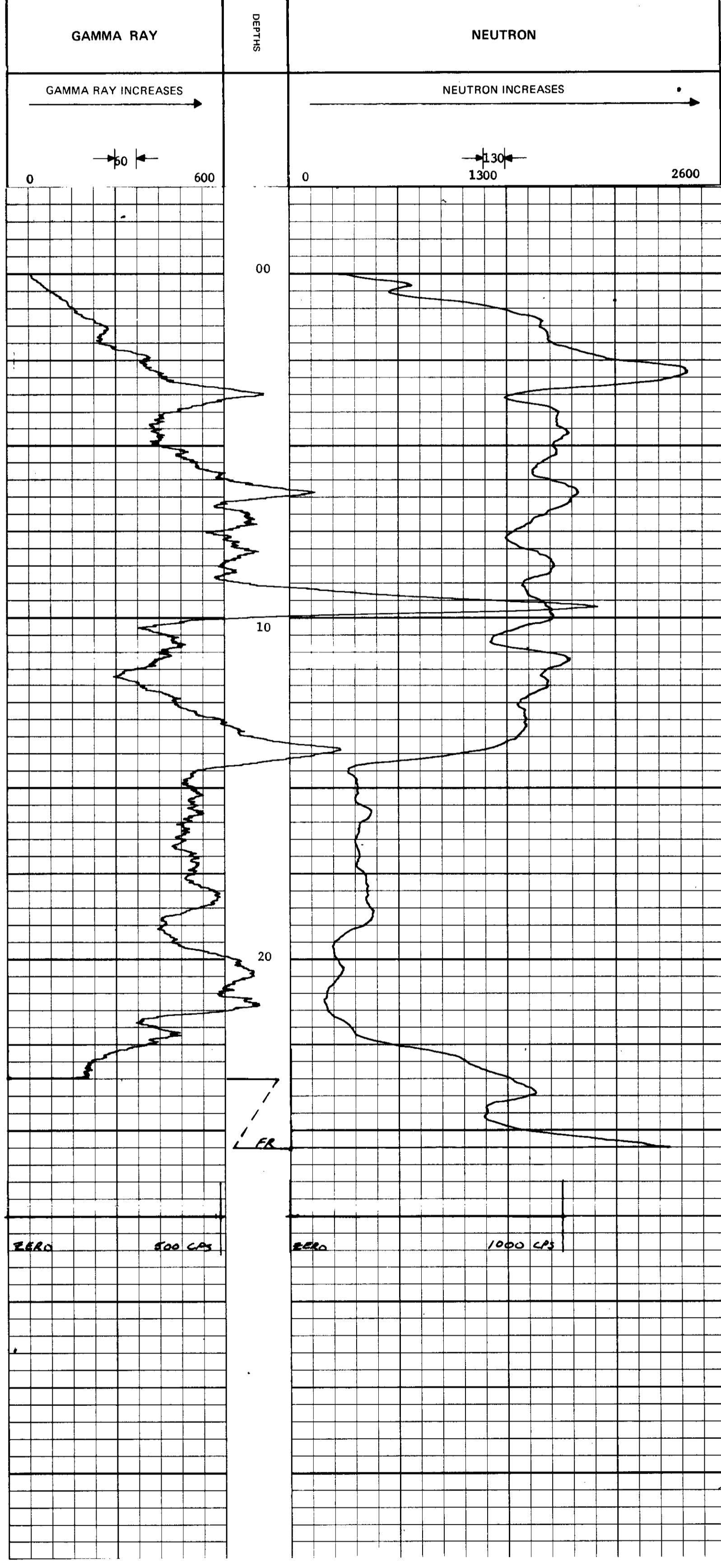
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCHEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 227
SEC	LOCATION	2219.22 N -0.23 E
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	
Permanent Datum	GROUND LEVEL	Elev. 1327.11
Log Measured from	RIG FLOOR	0.34 Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1327.11 METRIC
Run. No.	ONE	
Date	23 SEP 1978	
First Reading	25.5 M	
Last Reading	0	
Footage Logged	25.5	
Depth Reached	25.7	
Depth Driller	26.2	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Mfn. Diam.	HQ	
Rm @ 9f		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALOGIN	Witnessed By
		TURNER

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 M	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

GENERAL		GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS FROM TO	SPEED M/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	0 25.5	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 228
SEC	LOCATION	2309.16 N -30.130 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	PERMANENT DATUM	GROUND LEVEL Elev. 1335.63
	LOG MEASURED FROM	RIG FLOOR .3 M Above Perm. Datum
	WELL DEPTHS MEASURED FROM	RIG FLOOR
		K.B. _____
		CSG _____
		G.L. 1335.63
		METRIC
Run. No.	ONE	
Date	23 SEP 1978	
First Reading	15.5 M	
Last Reading	0	
Footage Logged	15.5	
Depth Reached	15.8	
Depth Driller	16.25	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ of		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALIGIN	Witnessed By
		TURNER

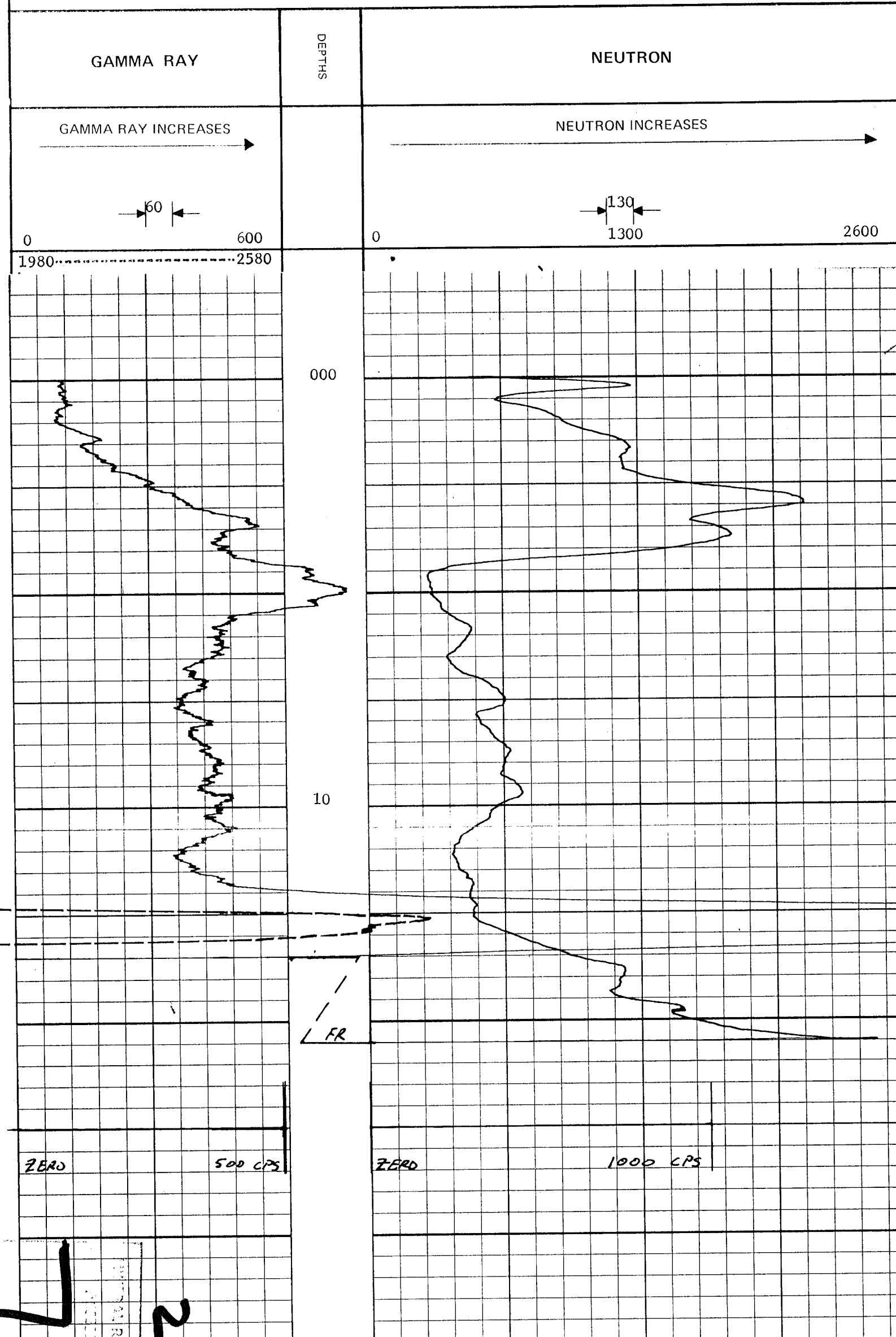
## EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	101		
INSTRUMENT TRUCK NO.	101		
TOOL SERIAL NO.	R GRN 125A 002		

## LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	15.5	4	3	500	0	60	3	1000	0	130
	12	13.5	4	3	500	33 L	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 229
SEC	TWP.	
RGE	LOCATION	2188.63 N 1.26 E
W. _____ M.	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	Elev. 1323.73
Log Measured from	RIG FLOOR	0.3 M. Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1323.73
		METRIC
Other Services:		
Run. No.	ONE	
Date	23 SEP 1978	
First Reading	11.5 M	
Last Reading	0	
Footage Logged	11.5	
Depth Reached	12.1	
Depth Driller	12.5	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 9F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALJGIN	Witnessed By
		TURNER

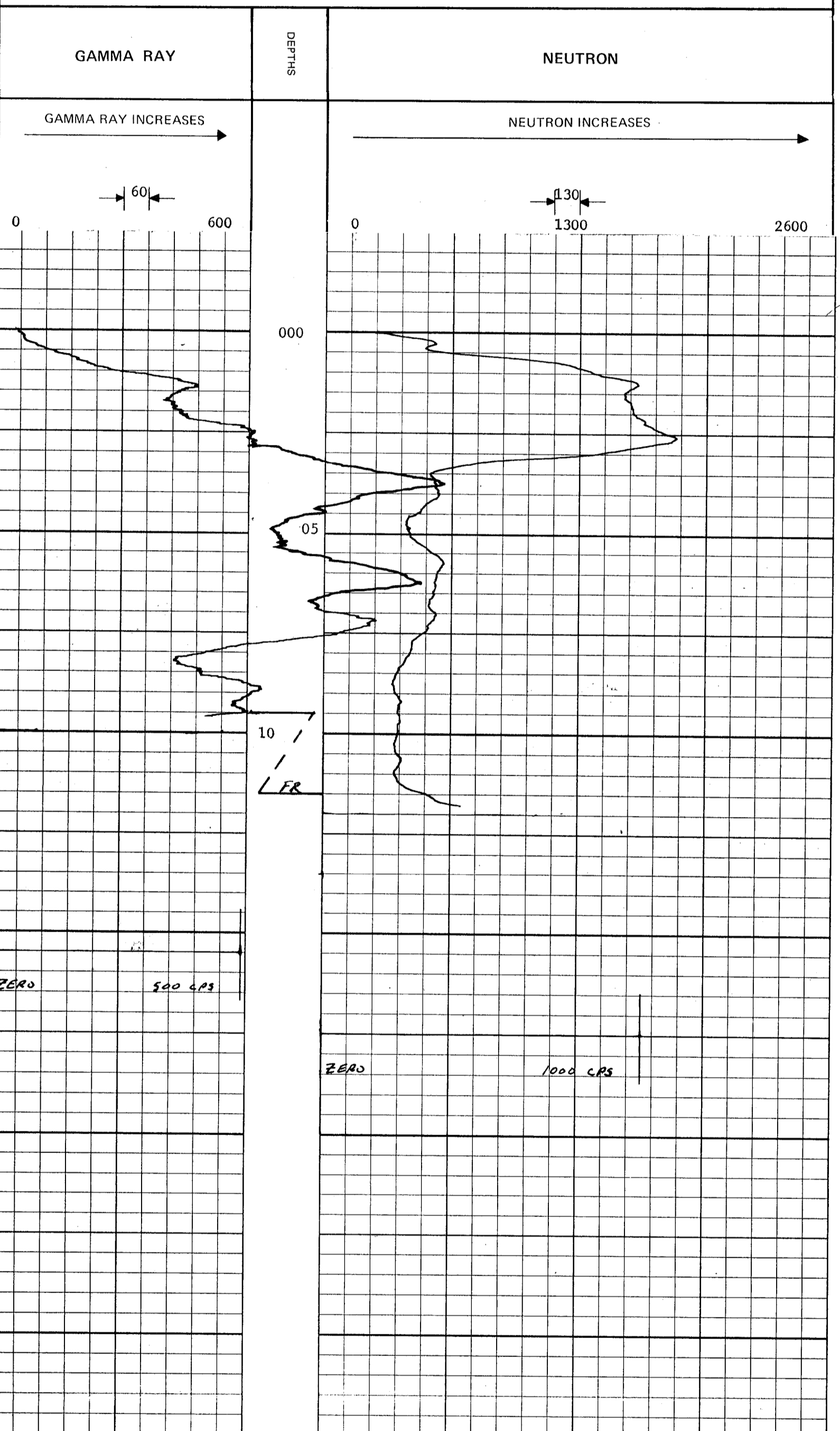
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125 A 002	STRENGTH	3 CURIES

### LOGGING DATA

GENERAL			GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM TO	M/MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0 11.5	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HO DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD SEC	WELL	78 - ND - 230
TWP	LOCATION	2369.84 N -27.09 E
RGE	FIELD	BLIZZARD
W. M.	PROVINCE	BRITISH COLUMBIA
	Permanent Datum	GROUND LEVEL Elev. 1341.19
	Log Measured from	RIG FLOOR 0.3M Above Perm. Datum
	Well Depths Measured from	RIG FLOOR
		K.B. _____
		CSG _____
		G.L. 1341.19
		METRIC
Run No.	ONE	
Date	23 SEP 1978	
First Reading	23 M	
Last Reading	0	
Footage Logged	23	
Depth Reached	23.2	
Depth Driller	23.47	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 9F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGGIN	Witnessed By
		TURNER

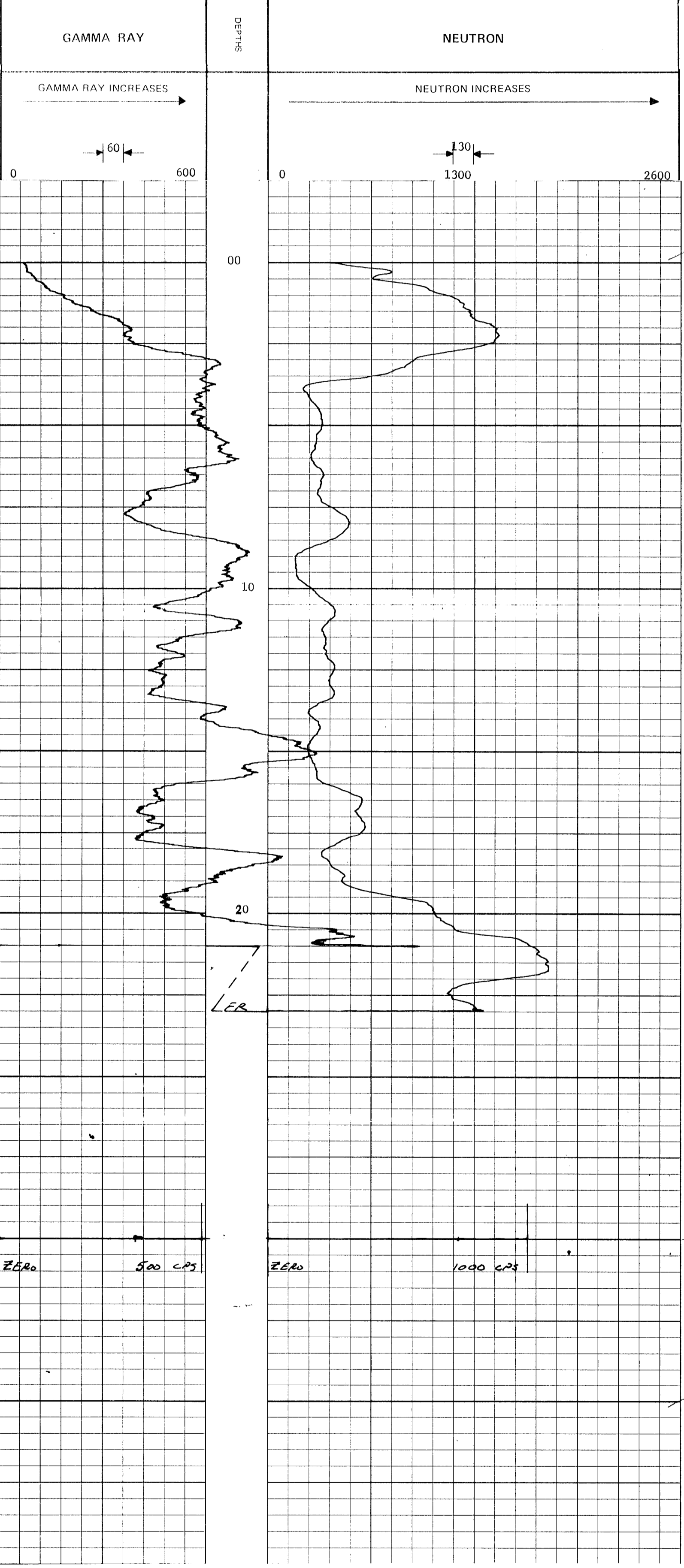
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	101		
INSTRUMENT TRUCK NO.	101		
TOOL SERIAL NO.	R GRN 125A 002		

### LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	23	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

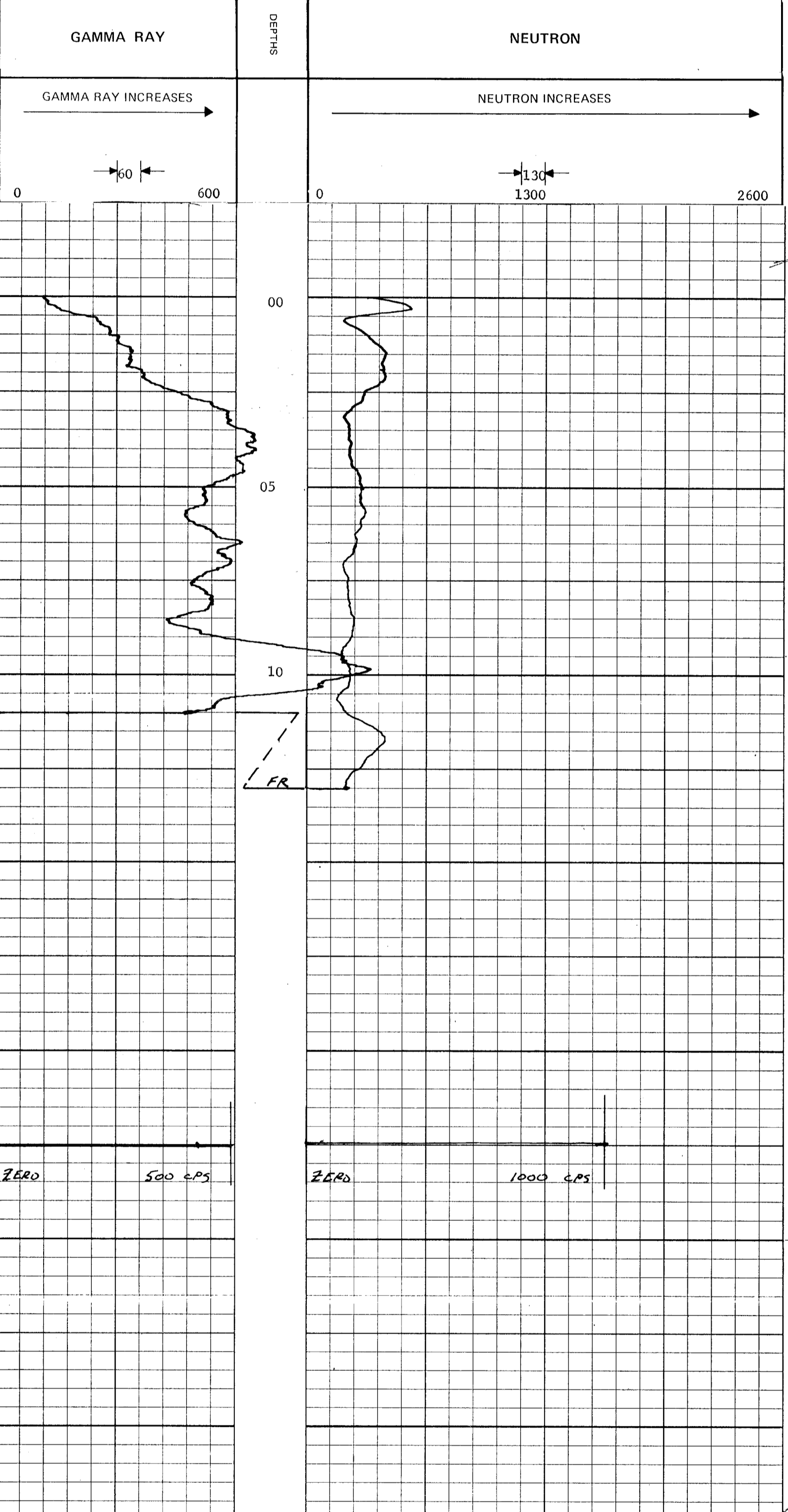
GAMMA RAY NEUTRON LOG  
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 232
SEC	LOCATION	2399.95 N 60.27 E
TWP	RGE	M
W	FIELD	BLIZZARD
PROVINCE	BRITISH COLUMBIA	Other Services:
Permanent Datum	GROUND LEVEL	Elev. 1335.07
Log Measured from	RIG FLOOR 0.3 M	Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1335.07
		METRIC
Run. No.	ONE	
Date	24 SEP 1978	
First Reading	13 M	
Last Reading	0	
Footage Logged	13	
Depth Reached	13.4	
Depth Driller	16.76	
Casing Role		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @ 0F		
Operating Time	1 HOUR	
Truck No.	101	
Recorded By	KALUGIN	Witnessed By
		TURNER

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M.	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	101	SPACING	43 CM
INSTRUMENT TRUCK NO.	101	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

GENERAL		GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM	TO	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	13	4	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



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ANNUAL RESOURCES BRANCH  
ASSESSMENT REPORT

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

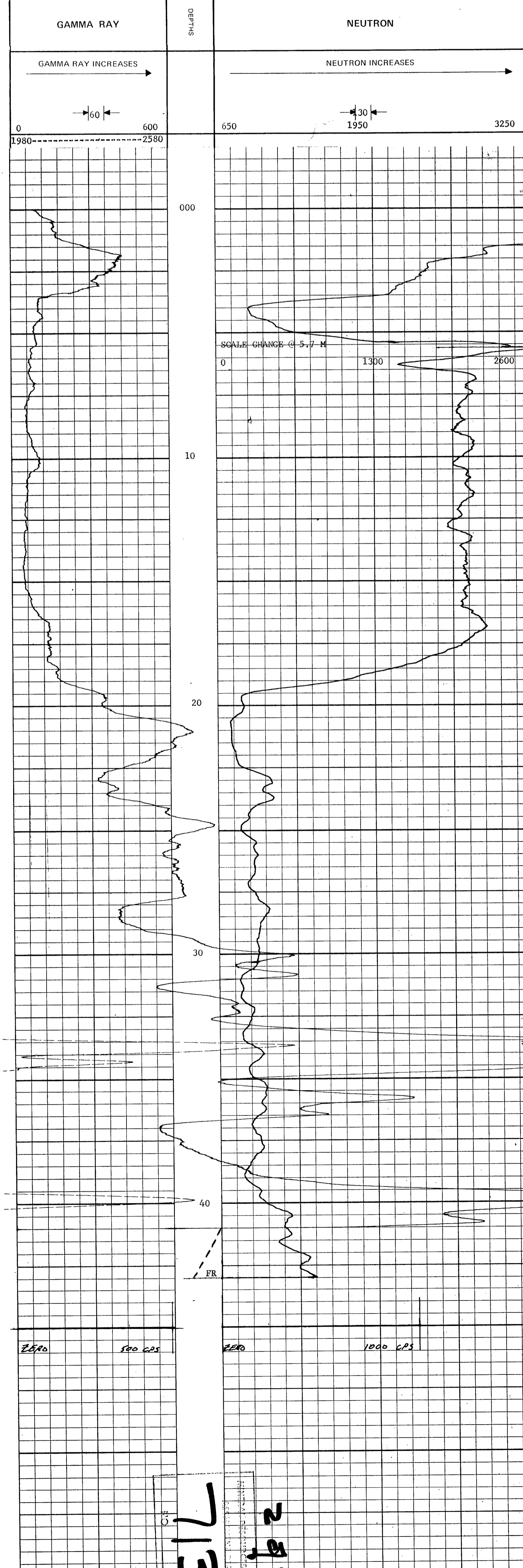
FILE NO. \_\_\_\_\_ COMPANY NORGEN ENERGY RESOURCES LIMITED  
 WELL 78 - ND - 251  
 LOCATION 3413.146 N 135.173 E  
 FIELD BLIZZARD  
 PROVINCE BRITISH COLUMBIA  
 GROUND LEVEL Elev. 1387.72  
 Log Measured from RIG FLOOR 0.3 M Above Perm. Datum  
 Well Depths Measured from RIG FLOOR  
 Other Services: NIL  
 Permanent Datum \_\_\_\_\_ K.B. \_\_\_\_\_  
 Log Measured from \_\_\_\_\_ CSG \_\_\_\_\_  
 Well Depths Measured from \_\_\_\_\_ G.L. 1387.72 METRIC

Run No. ONE  
 Date 7 OCT 1978  
 First Reading 43 M  
 Last Reading 0  
 Footage Logged 43  
 Depth Reached 43.2  
 Depth Driller 46.02  
 Casing Role \_\_\_\_\_  
 Casing Driller \_\_\_\_\_  
 Fluid Type WATER  
 Liquid Level \_\_\_\_\_  
 Min. Diam. HQ  
 Rm @ of \_\_\_\_\_  
 Operating Time 1 HOUR  
 Truck No. 101

EQUIPMENT DATA		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	8 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	5.7	4	3	500	0	60	3	1000	5 L	130
	5.7	43.0	4	3	500	0	60	3	1000	0	130
	33.0	40.5	4	3	500	33 L	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

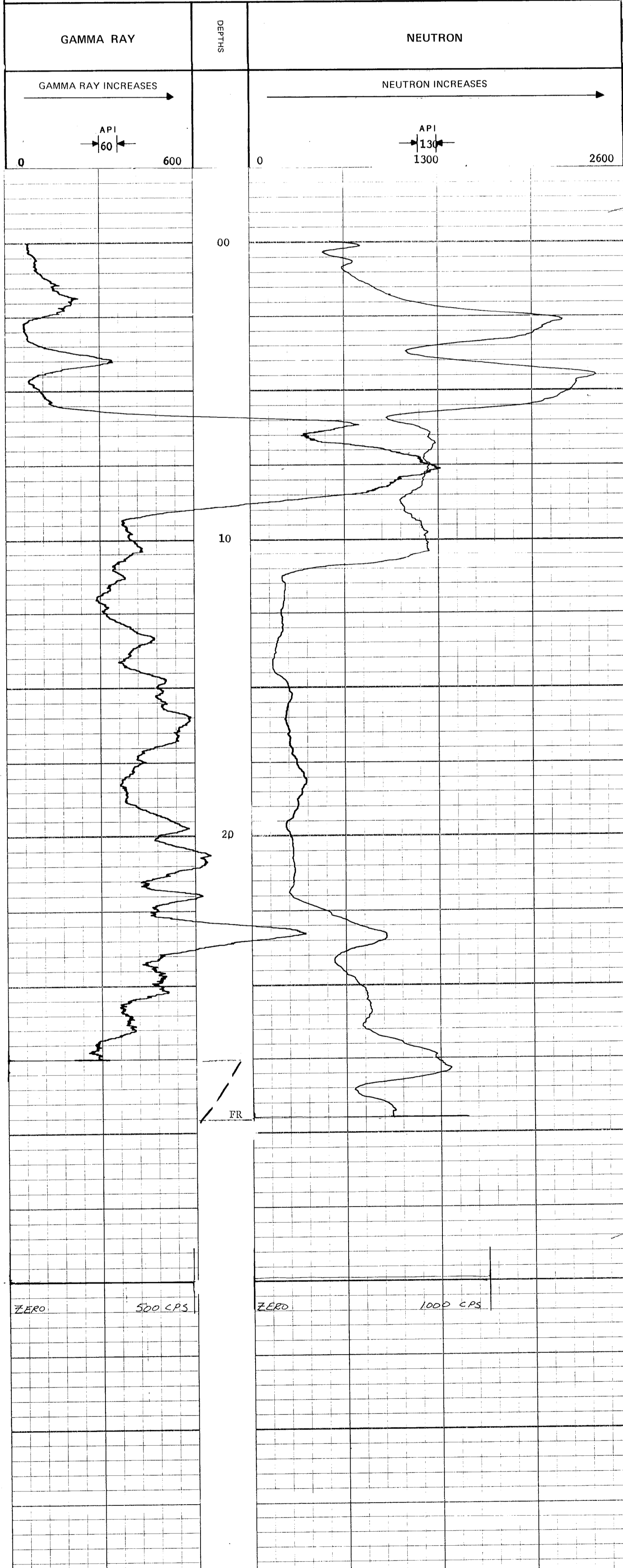
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 307
SEC	LOCATION	2429.55 N 30.17 W
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	Other Services: NIL
Permanent Datum	GROUND LEVEL	Elev. 1347.16 M
Log Measured from	RIG FLOOR	0.35M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1347.16 M METRIC
Run No.	ONE	
Date	25 NOV 1978	
First Reading	29.5 M	
Last Reading	0	
Footage Logged	29.5	
Depth Reached	30.0	
Depth Driller	30.48	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	1 HOUR	
Truck No.	130	
Recorded By	KALIGIN	Witnessed By BARCLAY

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

LOGGING DATA											
GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS		SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM	TO	M / MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	29.5	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



# ROKE

GAMMA RAY NEUTRON LOG

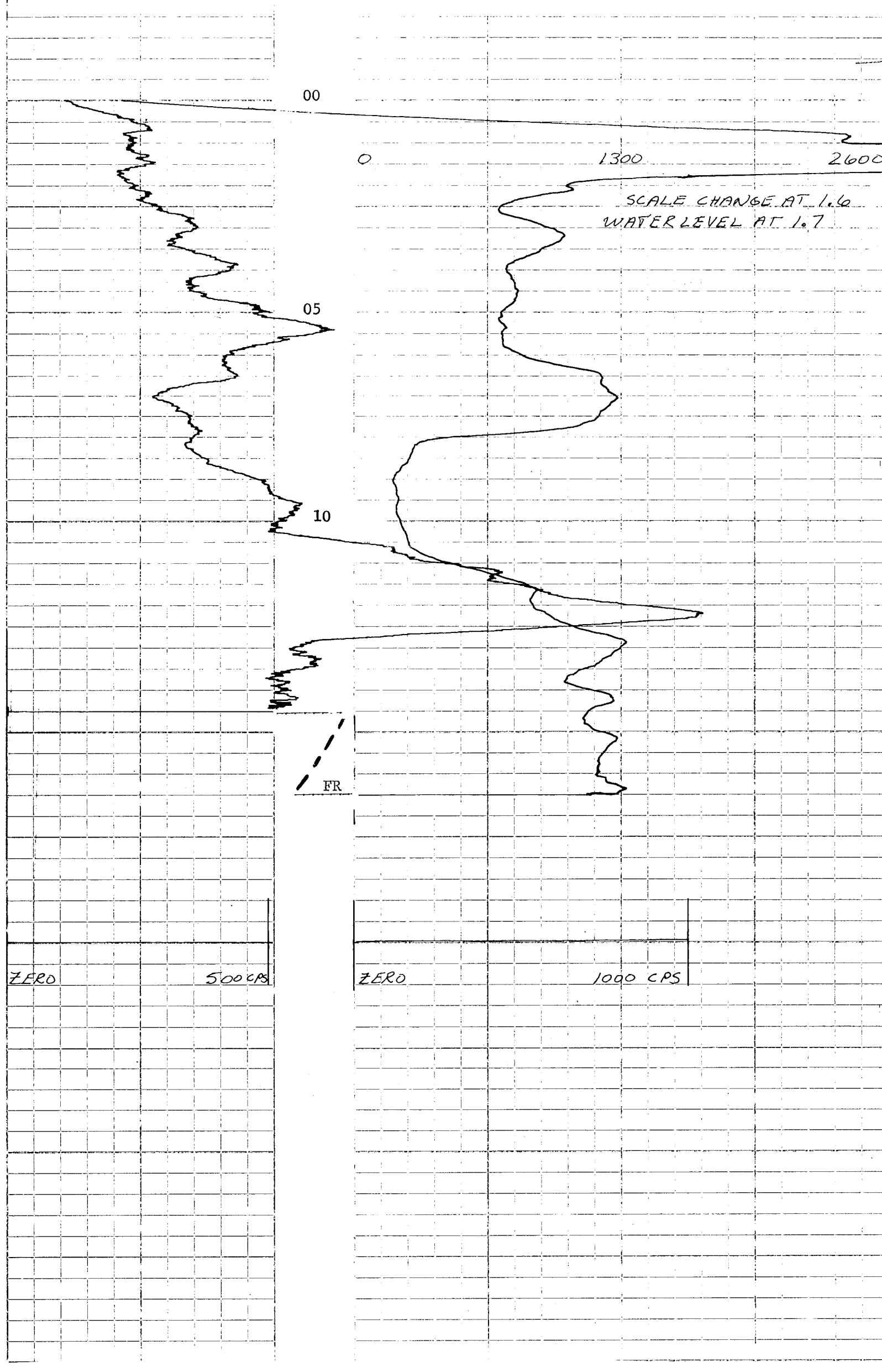
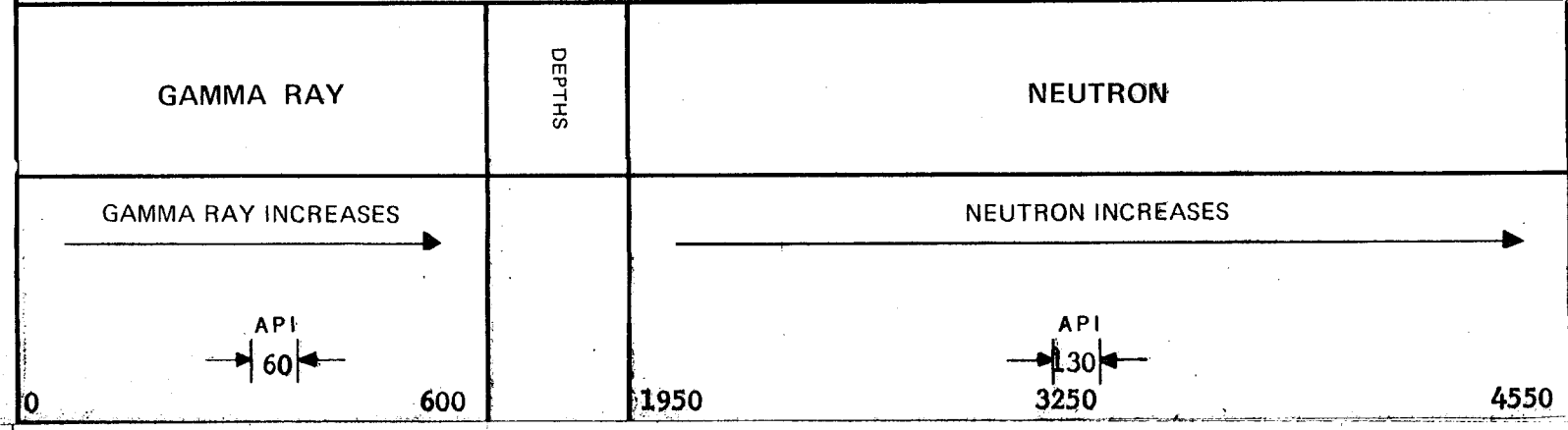
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 310
SEC	LOCATION	2428.48 N 60.01 E
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	Other Services: NIL
Permanent Datum	GROUND LEVEL	Elev. 1338.29 M
Log Measured from	RIG FLOOR	0.4 M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1338.29 M
Run. No.	ONE	
Date	26 NOV 1978	
First Reading	16.5 M	
Last Reading	0	
Footage Logged	16.5	
Depth Reached	16.95	
Depth Driller	17.37	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	1.7	
Min. Diam.	HQ	
Rm @		
Operating Time	3/4 HOUR	
Truck No.	130	
Recorded By	KALIGIAN	Witnessed By BARCLAY

EQUIPMENT DATA		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	130		
INSTRUMENT TRUCK NO.	130		
TOOL SERIAL NO.	R GRN 125A 002		

LOGGING DATA											
RUN NO.	GENERAL			GAMMA RAY				NEUTRON			
	FROM	TO	SPEED M/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	0	1.7	4	3	500	0	60	3	1000	15 L	130
	1.7	16.5	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



MINERAL RESOURCES BRANCH  
ASSISTANT REPORT  
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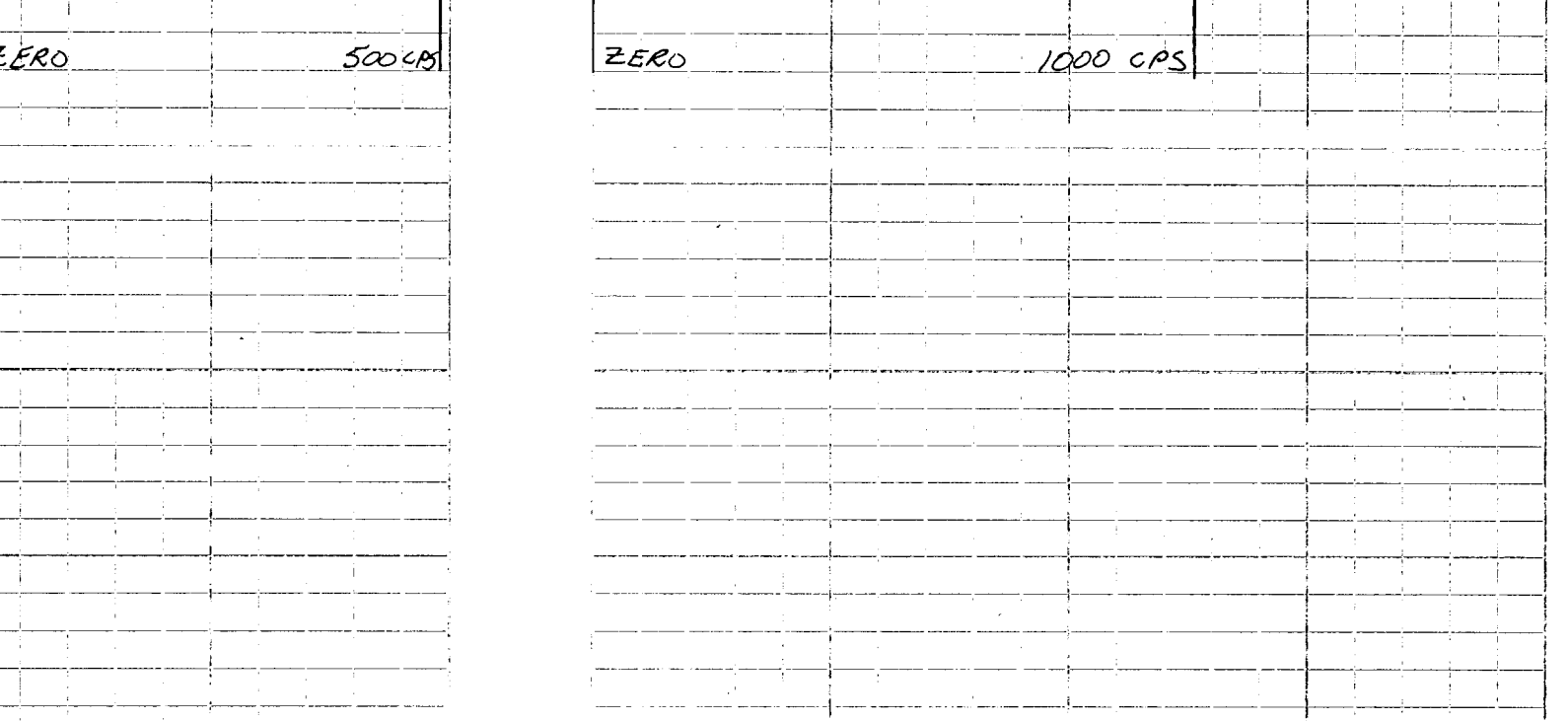
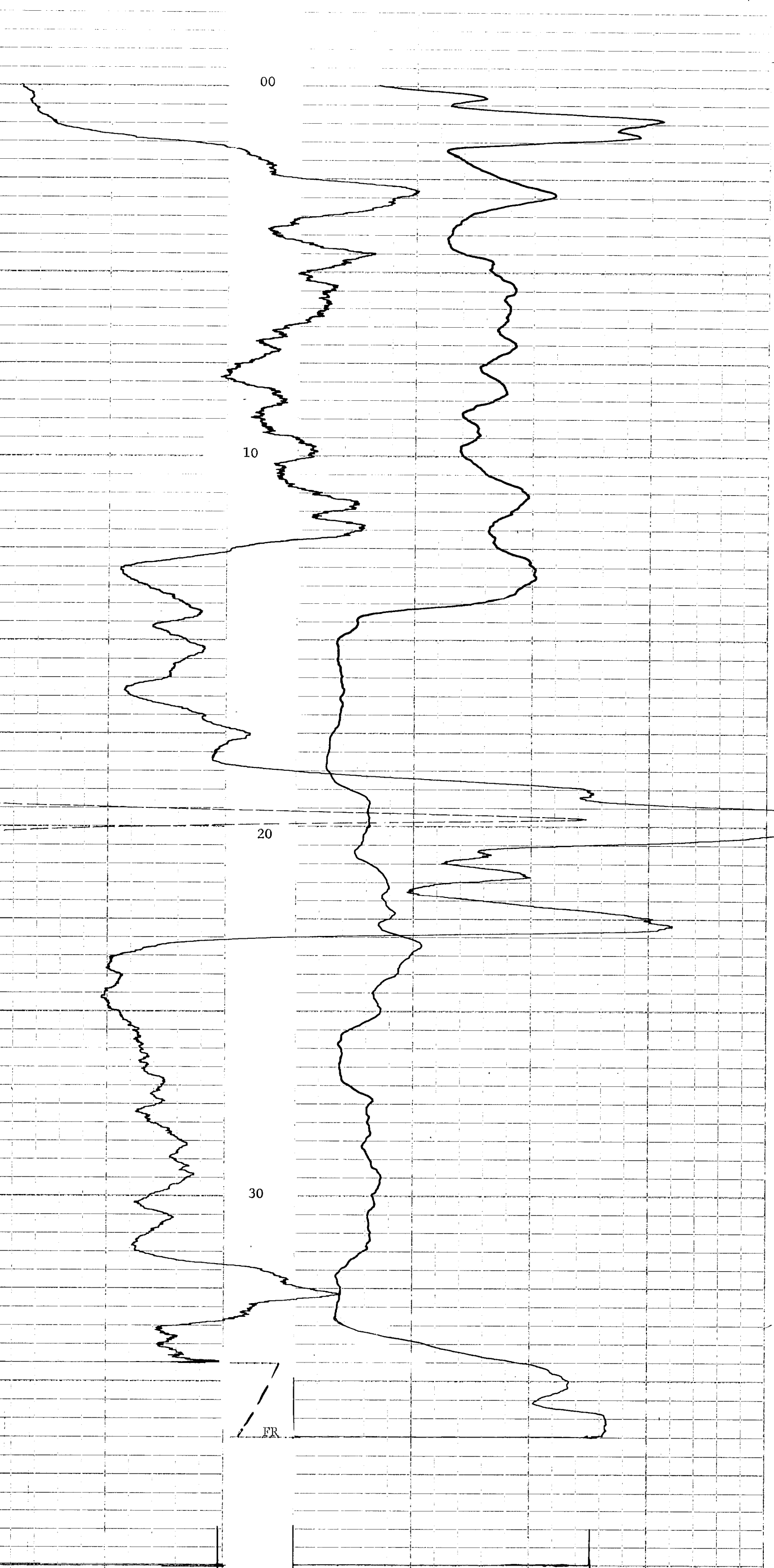
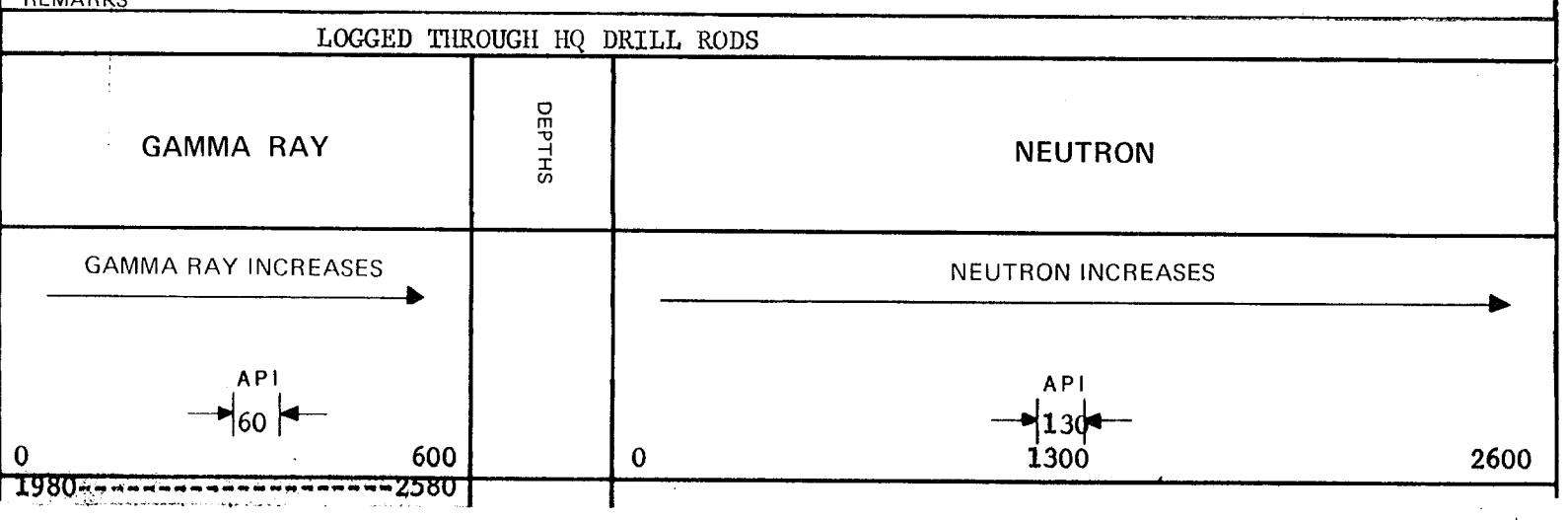
# ROKE

GAMMA RAY NEUTRON LOG  
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 311
SEC	TWP	
RGE	LOCATION	2400.66 N 1.22 W
W - M	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	Elev. 1351.89 M
Log Depths Measured from	RIG FLOOR	0.45 M Above Perm. Datum
	RIG FLOOR	G.L. 1351.89 M
	Other Services:	NILL
Run. No.	ONE	
Date	26 NOV 1978	
First Reading	36.5 M	
Last Reading	0	
Footage Logged	36.5	
Depth Reached	36.95	
Depth Driller	37.5	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	45 MIN	
Truck No.	130	
Recorded By	KALUCIN	Witnessed By
		BARCAY

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	36.5	4	3	500	0	60	3	1000	0	130
1	19	20.5	4	3	500	33 L	60	3	1000	0	130



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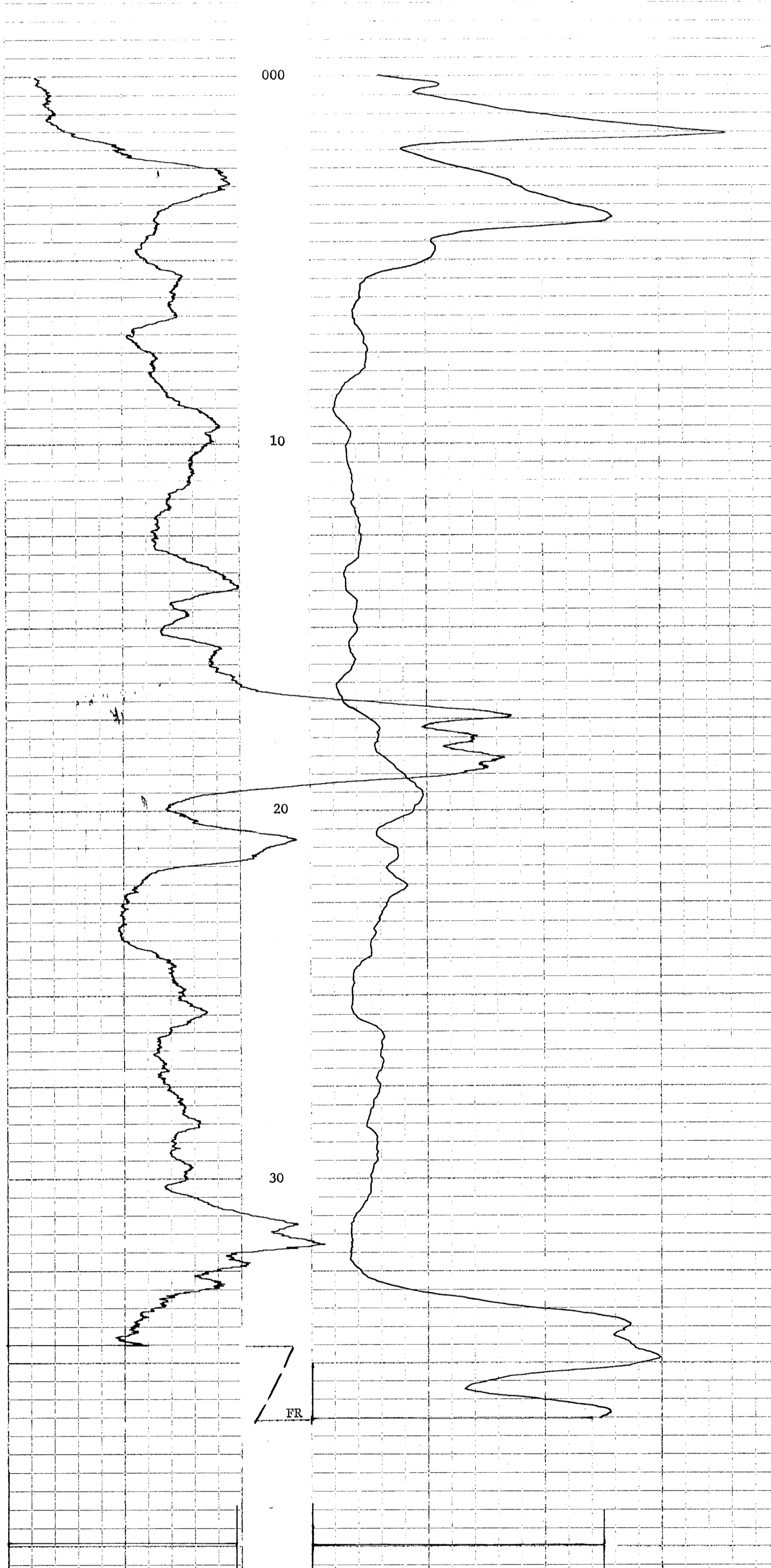
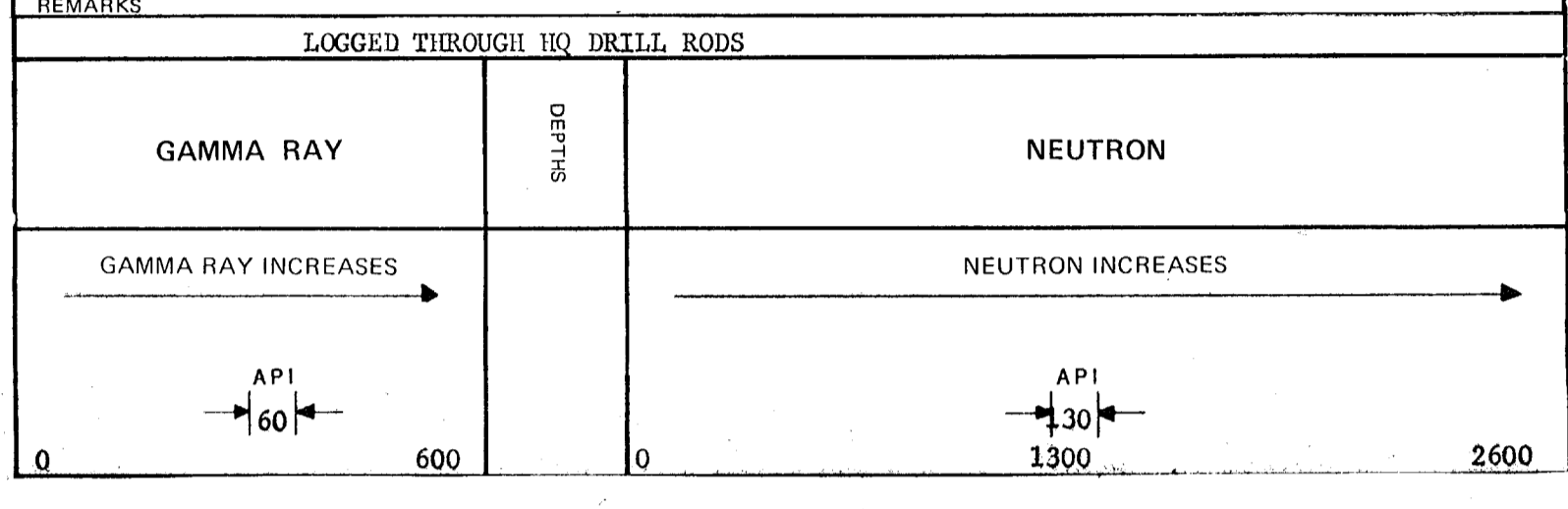
# ROKE

GAMMA RAY NEUTRON LOG  
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 312
SEC	LOCATION	2370.24 N 1.14 W
TWP	RGE	M
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1340.41 M
	RIG FLOOR	0.3 M Above Perm. Datum
	RIG FLOOR	G.L. 1340.41 M
	Other Services:	NTL
Permanent Datum		
Log Measured from		
Well Depths Measured from		
Run No.	ONE	
Date	27 NOV 1978	
First Reading	36.5 M	
Last Reading	0	
Footage Logged	36.5	
Depth Reached	36.9	
Depth Driller	36.9	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HO	
Rm @		
Operating Time	1 HOUR	
Truck No.	130	
Recorded By	KALIGIN	Witnessed By
		BARCLAY

EQUIPMENT DATA		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	130		
INSTRUMENT TRUCK NO.	130		
TOOL SERIAL NO.	R GRN 125A 002		

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	36.5	4	3	500	0	60	3	1000	0	130



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7131



# ROKE

GAMMA RAY NEUTRON LOG

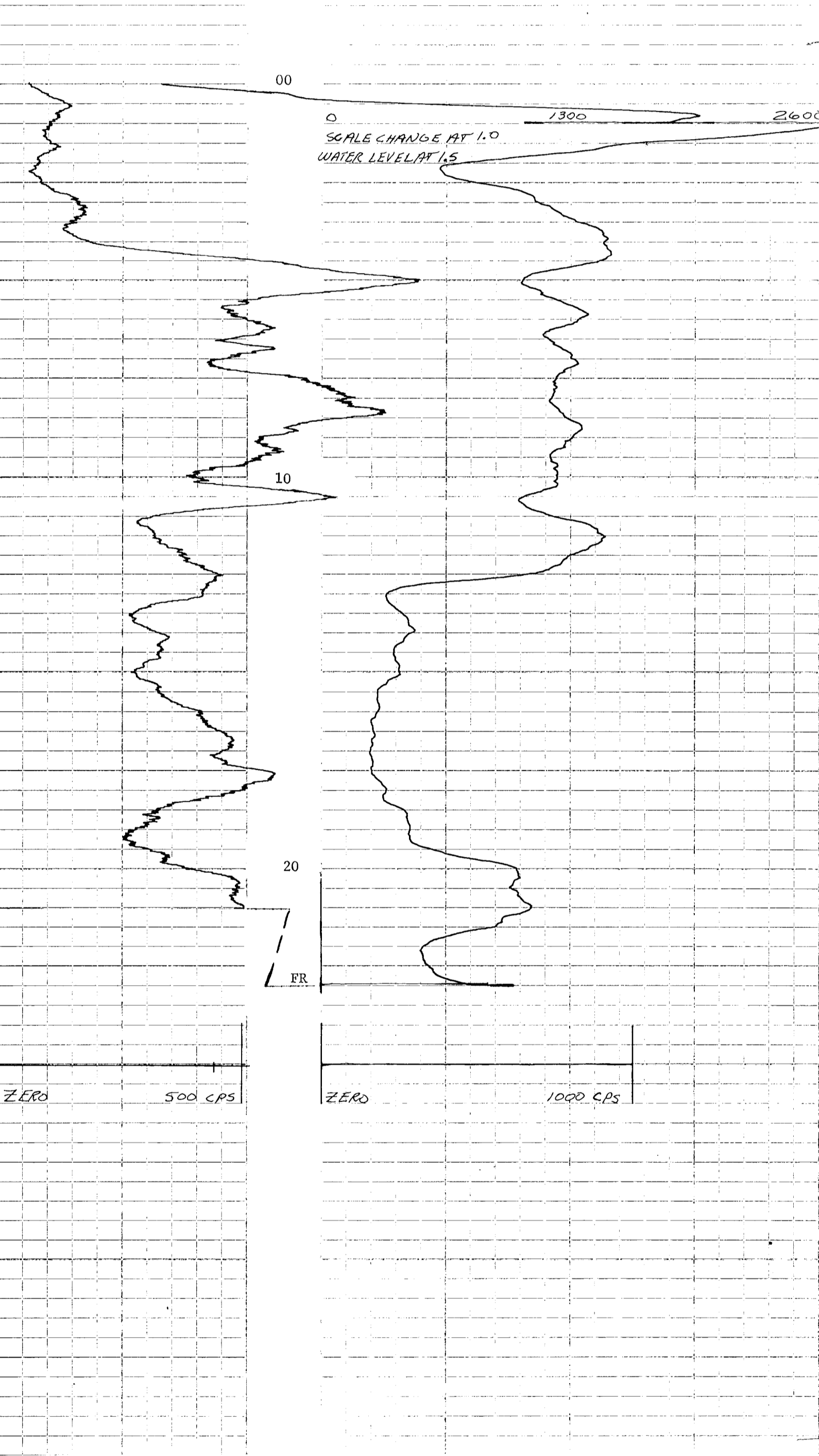
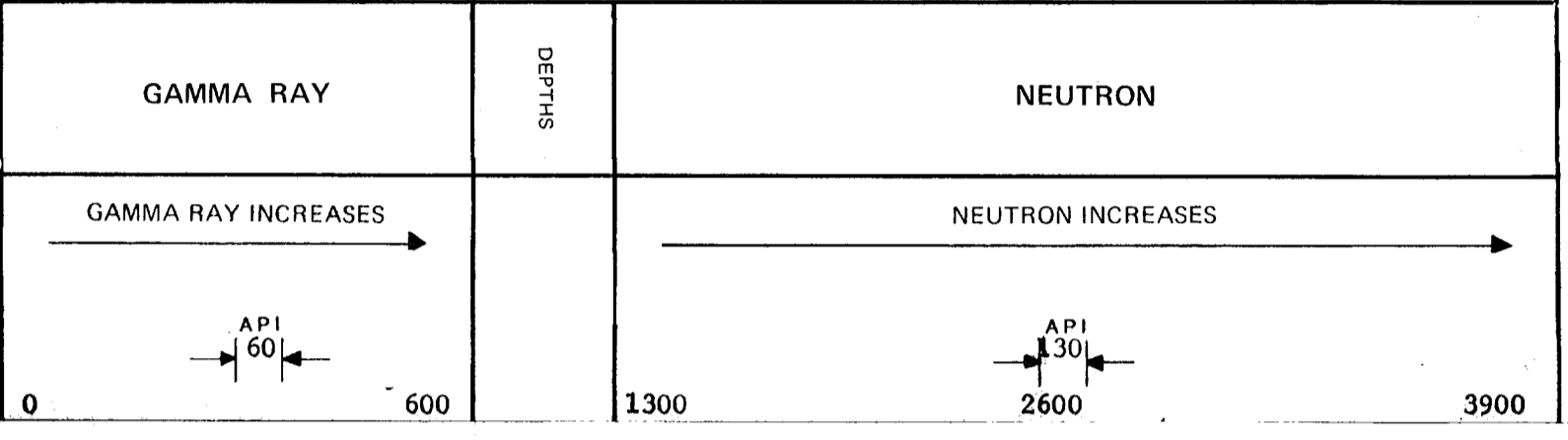
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 313
SEC	TWP	
RGE	LOCATION	2399.33 N 30.46 W
W	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1343.64 M
	RIG FLOOR	0.3 M Above Perm. Datum
	RIG FLOOR	G.L. 1343.64 M
	Other Services:	NIL
Permanent Datum		
Log Measured from		
Well Depths Measured from		
Run. No.	ONE	
Date	27 NOV 1978	
First Reading	23 M	
Last Reading	0	
Footage Logged	23	
Depth Reached	23.25	
Depth Driller	23.47	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	1.5	
Min. Diam.	HQ	
Rm @		
Operating Time	3/4 HOUR	
Truck No.	130	
Recorded By	KALJGIN	Witnessed By
		BARCLAY

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

GENERAL		GAMMA RAY				NEUTRON					
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	1.0	4	3	500	0	60	3	1000	10 L	130
	1.0	23.0	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 314
SEC	TWP	
RGE	LOCATION	2278.77 N 62.13 W
W. _____ M	FIELD	BLIZZARD
PROVINCE	BRITISH COLUMBIA	Other Services:
Permanent Datum	GROUND LEVEL	Elev. 1336.43 M
Log Measured from	RIG FLOOR	0.35M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1336.43 M
		METRIC
Run. No.	ONE	
Date	27 NOV 1978	
First Reading	18 M	
Last Reading	0	
Footage Logged	18	
Depth Reached	18.3	
Depth Driller	18.3	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3/4 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By
		BARCLAY

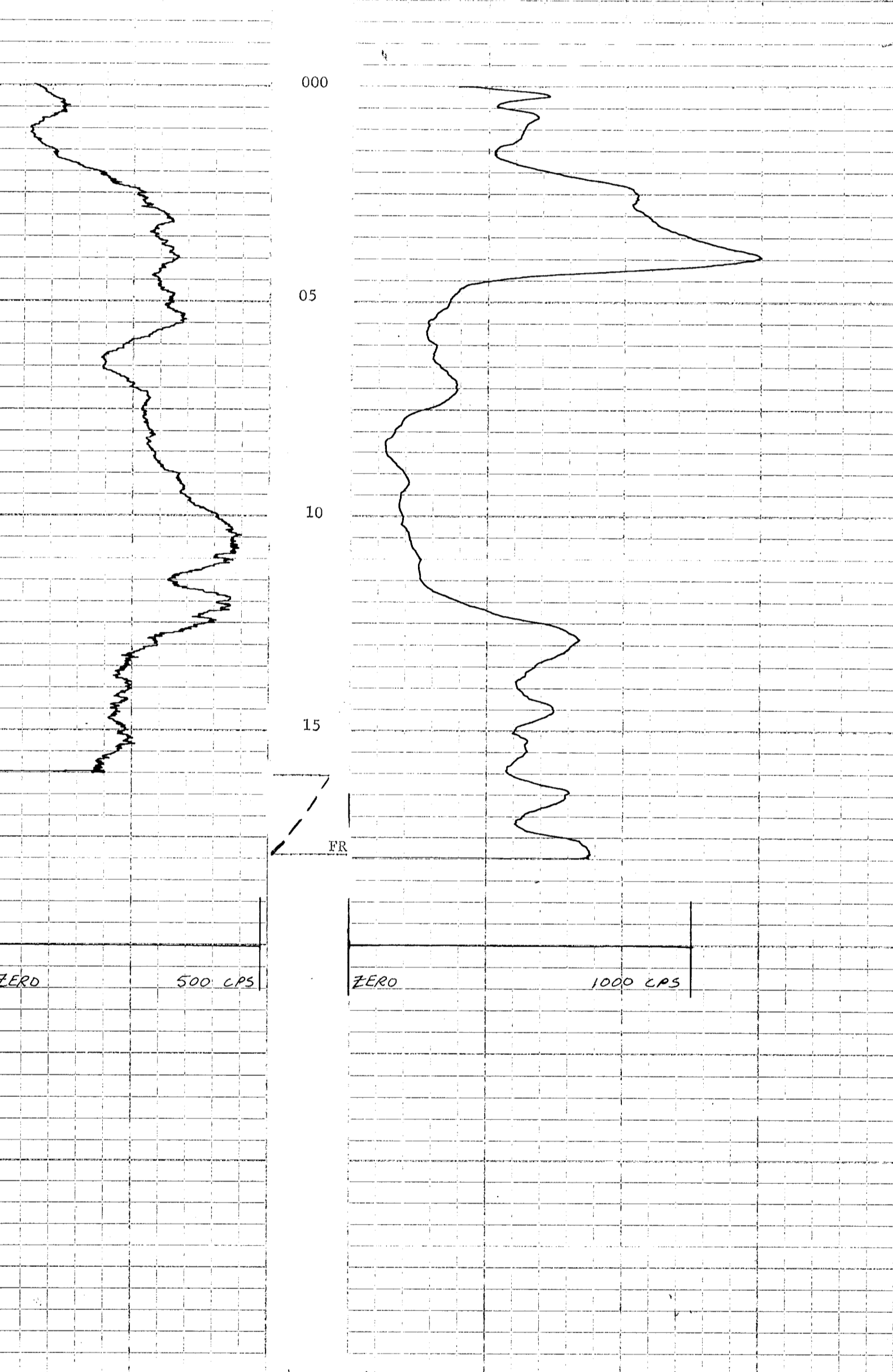
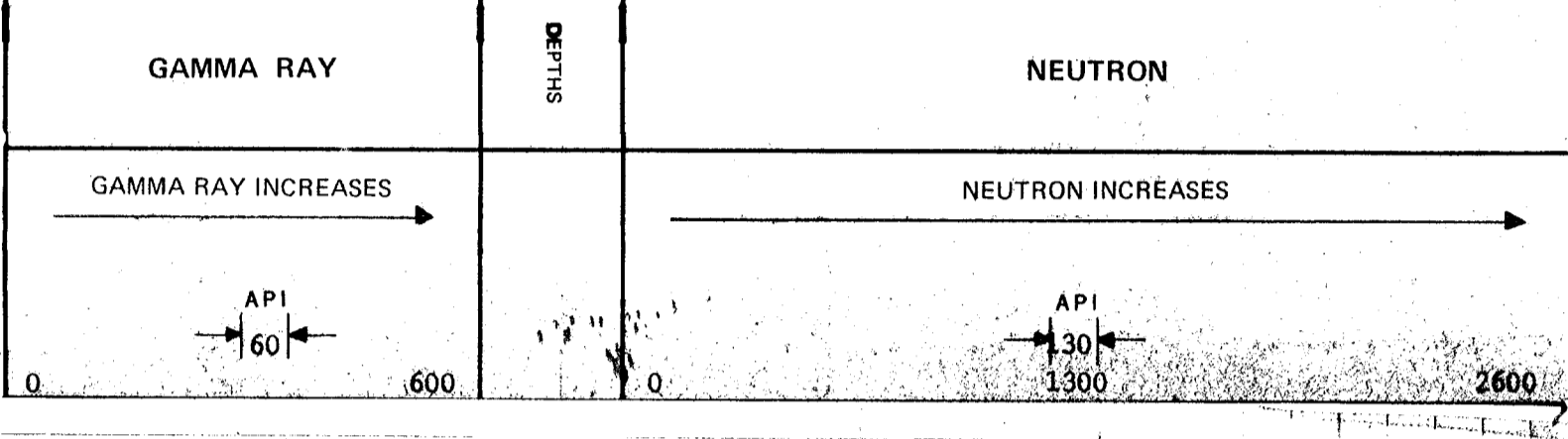
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

RUN NO.	GENERAL DEPTHS		SPEED M/MIN	GAMMA RAY				NEUTRON			
	FROM	TO		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	0	18	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 315
SEC	TWP	
RGE	LOCATION	2308.52 N 64.59 W
W	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
	GROUND LEVEL	Elev. 1337.19 M
	RIG FLOOR	.3M Above Perm. Datum
	RIG FLOOR	
Permanent Datum		K.B. _____
Log Measured from		CSG _____
Well Depths Measured from		G.L. 1337.19 M
		METRIC
Other Services:		NIL
Run. No.	ONE	
Date	27 NOV 1978	
First Reading	14 M	
Last Reading	0	
Footage Logged	14	
Depth Reached	14.1	
Depth Driller	14.3	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3 HOUR	
Truck No.	130	
Recorded By	KALJGIN	Witnessed By
		BARCLAY

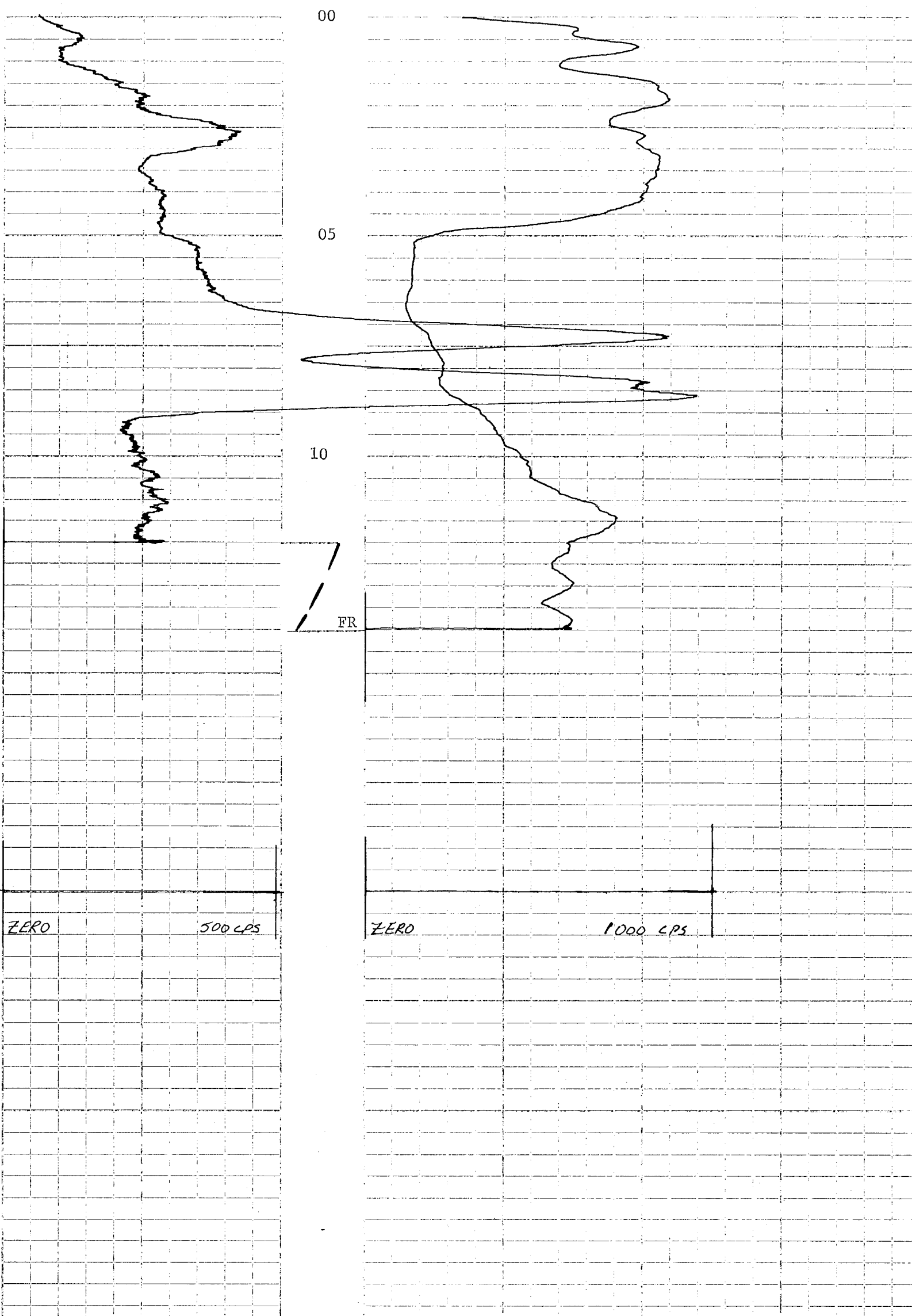
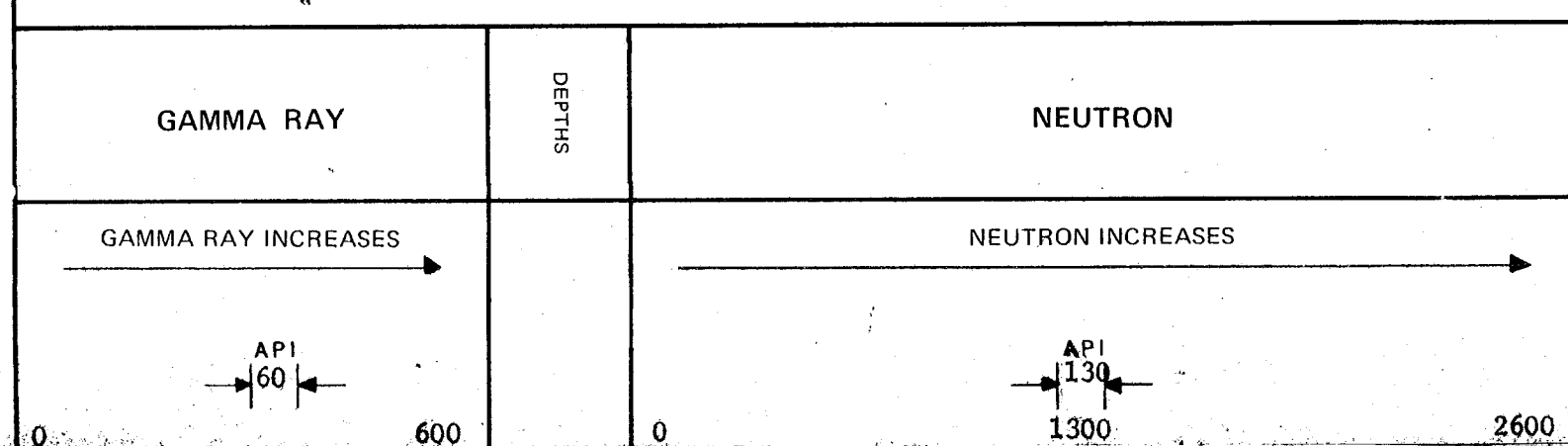
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTEILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	130		
INSTRUMENT TRUCK NO.	130		
TOOL SERIAL NO.	R GRN 125A 002		

### LOGGING DATA

GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		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.	
	FROM	TO									M / MIN
1	0	14	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



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7131  
NO

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 316
SEC	LOCATION	2159.50 N 90.10 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	GROUND LEVEL	Elev. 1316.62 M
	RIG FLOOR	0.3M Above Perm. Datum
	RIG FLOOR	G.L. 1316.62 M
	Well Depths Measured from	METRIC
Permanent Datum	Other Services:	NITL
Log Measured from		
Well Depths Measured from		
Run. No.	ONE	
Date	27 NOV 1978	
First Reading	12.5 M	
Last Reading	0	
Footage Logged	12.5	
Depth Reached	12.62	
Depth Driller	12.8	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	1/2 HOUR	
Truck No.	130	
Recorded By	FAJUGIN	Witnessed By
		BARCLAY

### EQUIPMENT DATA

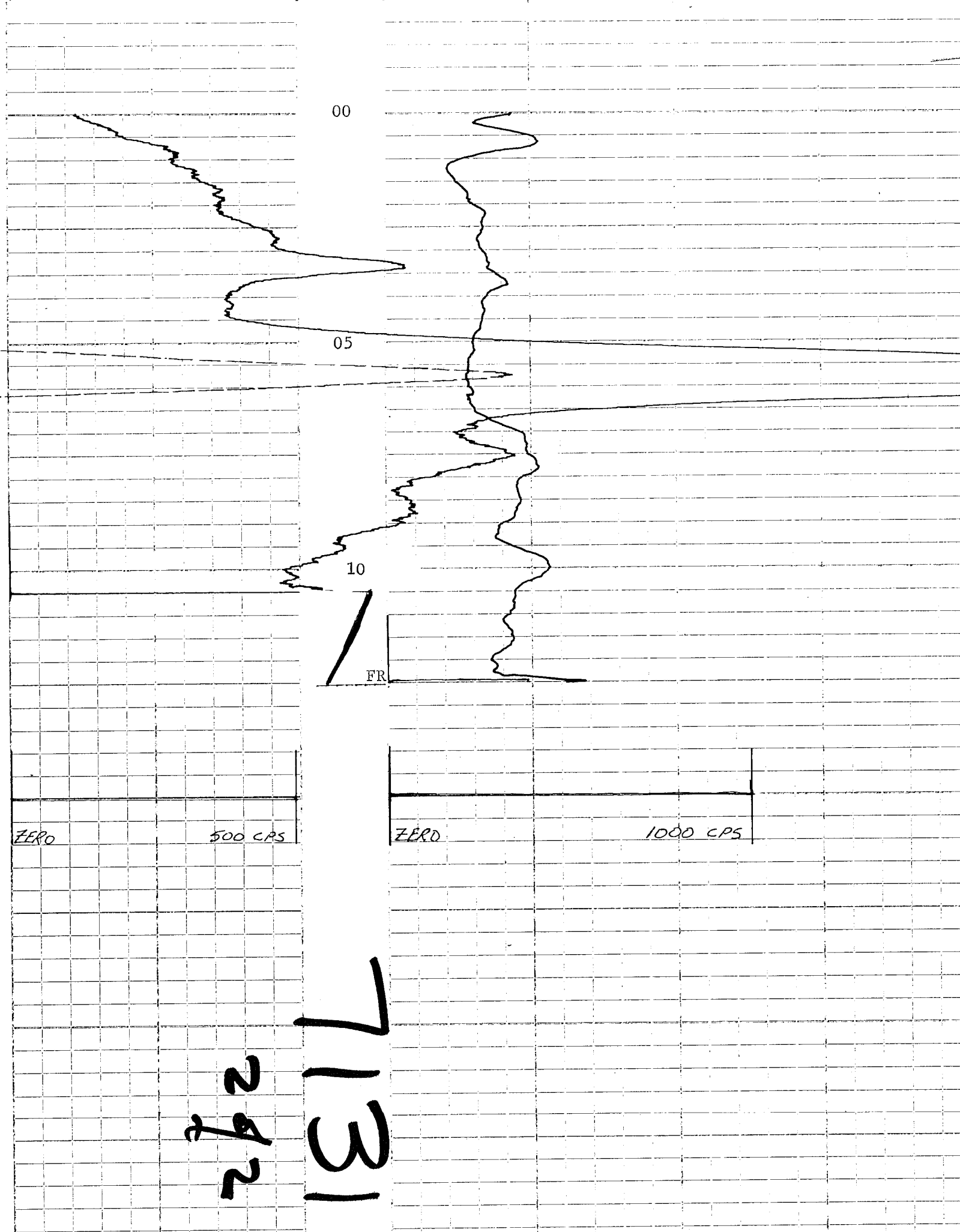
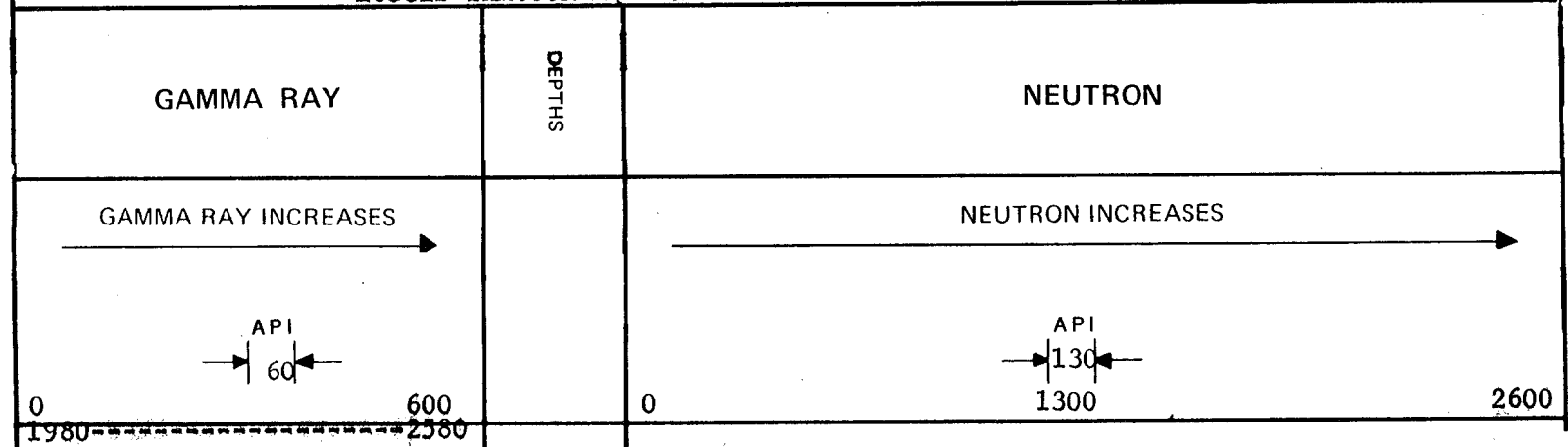
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS		SPEED M / 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.
	FROM	TO									
1	0	12.5	4	3	500	0	60	3	1000	0	130
1	5	6.5	4	3	500	33 L	60	3	1000	0	130

REMARKS

LOGGED THROUGH HQ DRILL RODS



# ROKE

GAMMA RAY NEUTRON LOG

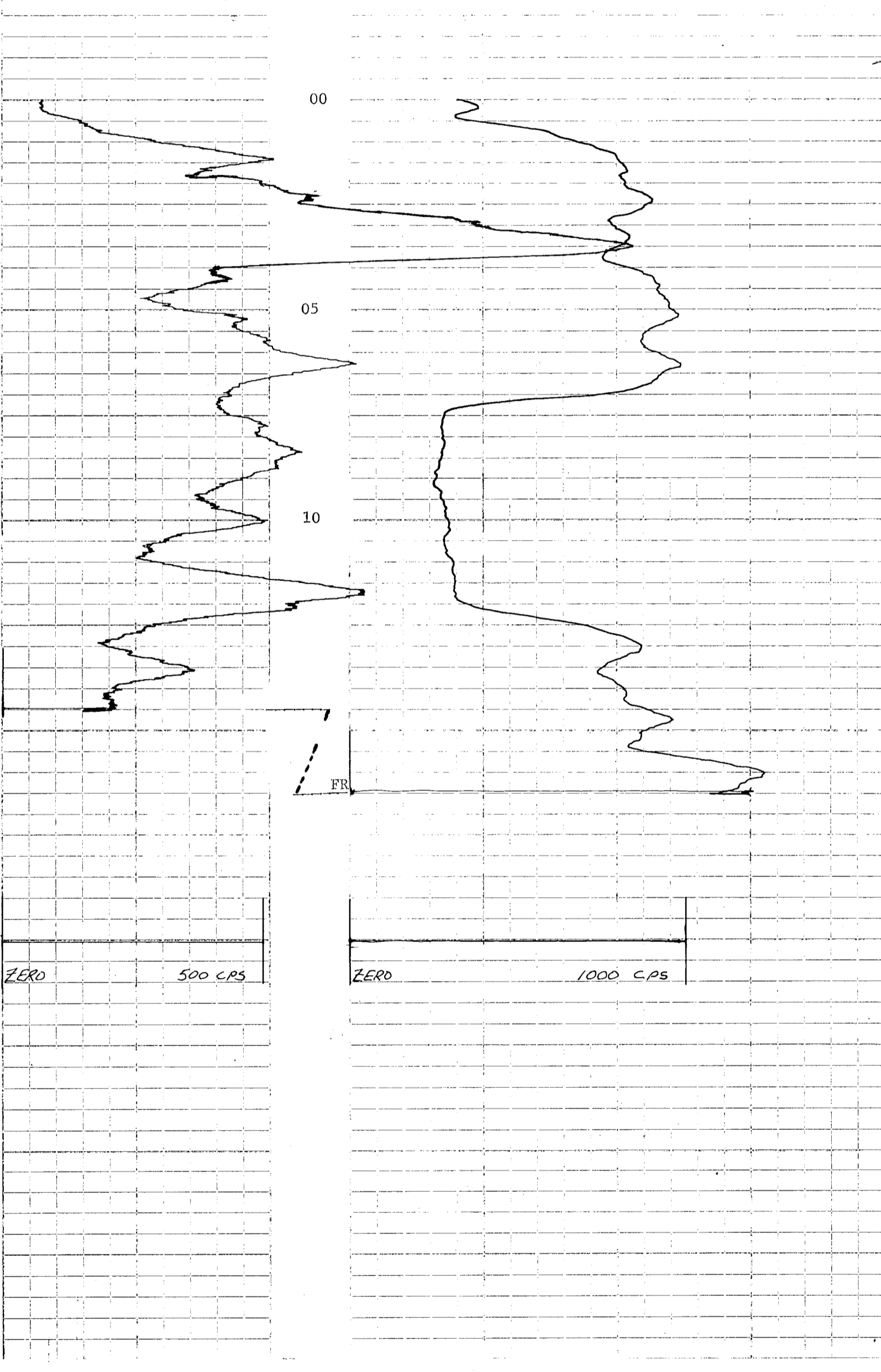
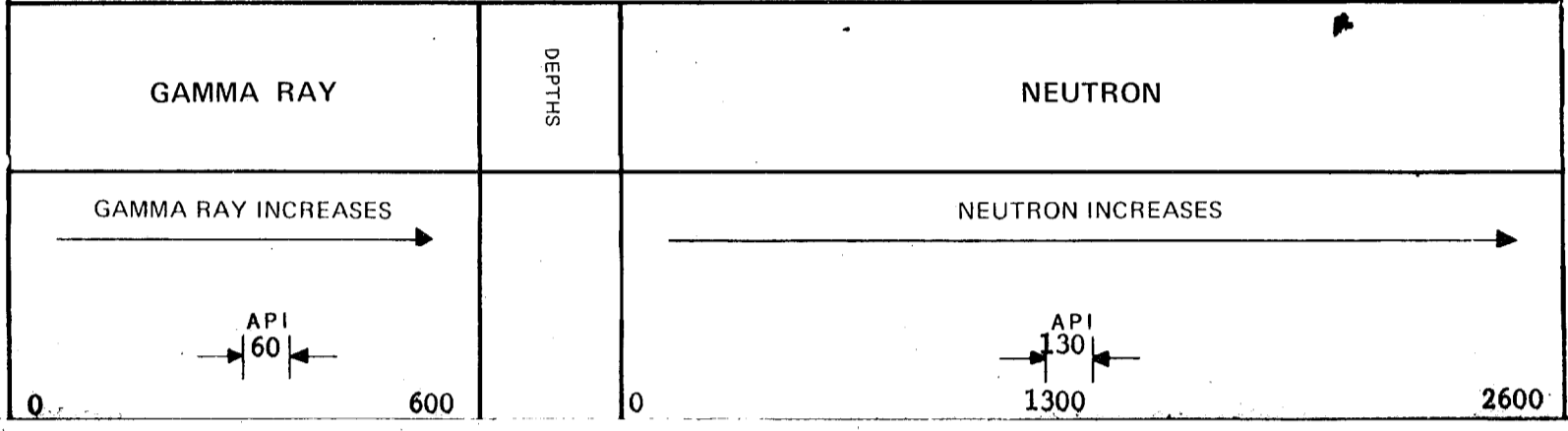
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 317
SEC	LOCATION	2163.22 N 33.88 E
TWP	RGE	M
RGE	FIELD	BLIZZARD
W	PROVINCE	BRITISH COLUMBIA
	Permanent Datum	GROUND LEVEL Elev. 1320.29 M
	Log Measured from	RIG FLOOR .3M Above Perm. Datum
	Well Depths Measured from	RIG FLOOR
		Other Services:
		NTL
		K.B.
		CSG
		G.L. 1320.29 M
		METRIC
Run No.	ONE	
Date	27 NOV 1978	
First Reading	16.5 M	
Last Reading	0	
Footage Logged	16.5	
Depth Reached	16.95	
Depth Driller	17.07	
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By
		BARGRAY

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	130		
INSTRUMENT TRUCK NO.	130		
TOOL SERIAL NO.	R GRN 125A 002		

LOGGING DATA											
GENERAL			GAMMA RAY					NEUTRON			
RUN NO.	DEPTHS		SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM	TO	M/MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	16.5	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



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NO

# ROKE

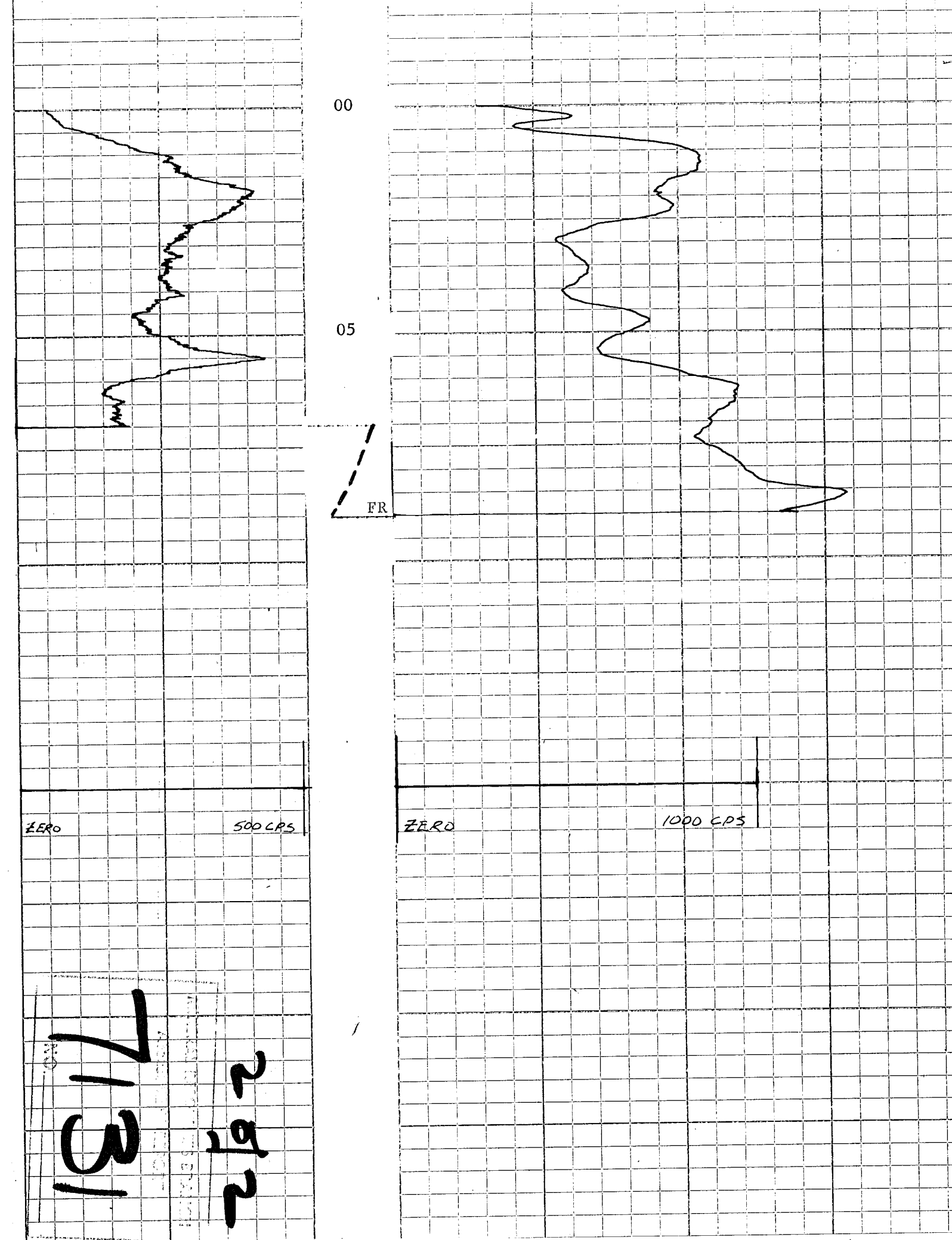
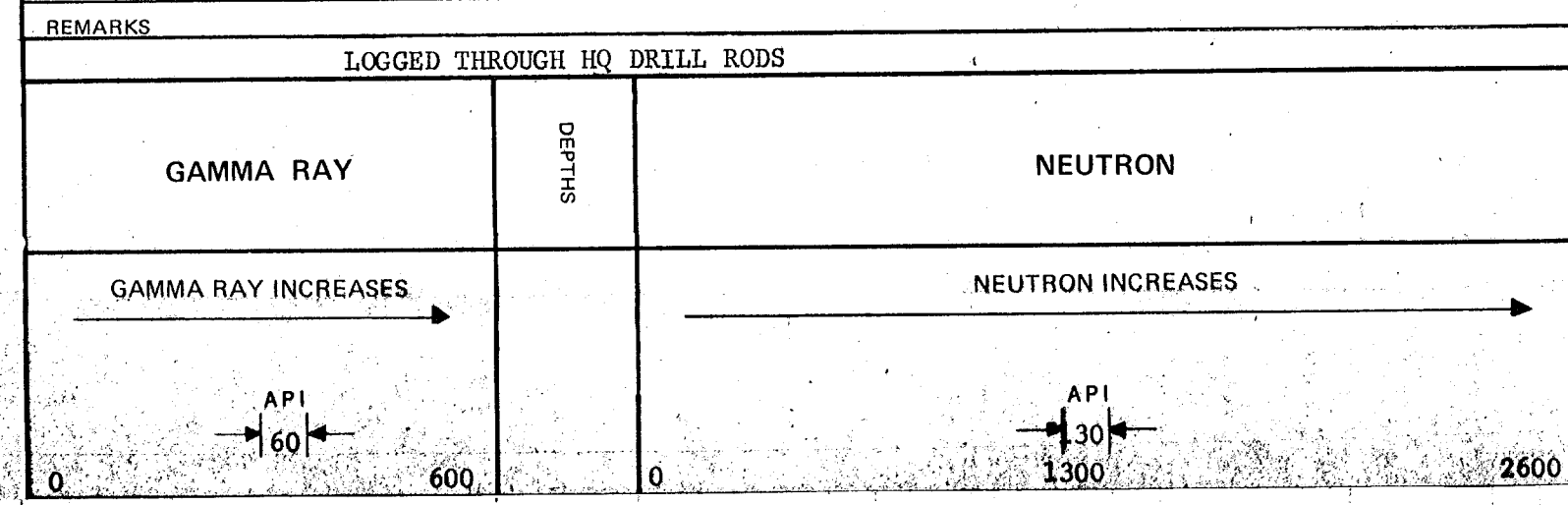
GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 320
SEC	LOCATION	2129.66 N 90.94 E
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	GROUND LEVEL	Elev. 1314.80 M
	Log Measured from	RIG FLOOR 0.3M Above Perm. Datum
	Well Depths Measured from	RIG FLOOR
	Other Services:	NIL
	K.B.	
	C.S.G.	
	G.L.	1314.80 M
	METRIC	
Run. No.	ONE	
Date	28 NOV 1978	
First Reading	9.0 M	
Last Reading	0	
Footage Logged	9.0	
Depth Reached	9.45	
Depth Driller	9.75	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3 HOUR	
Truck No.	130	

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES
GENERAL			
HOIST TRUCK NO.	130		
INSTRUMENT TRUCK NO.	130		
TOOL SERIAL NO.	R GRN 125A 002		

LOGGING DATA											
GENERAL			GAMMA RAY					NEUTRON			
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	9.0	4	3	500	0	60	3	1000	0	130



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Recorded By KALUGIN Witnessed By BARCLAY

# ROKE

GAMMA RAY NEUTRON LOG

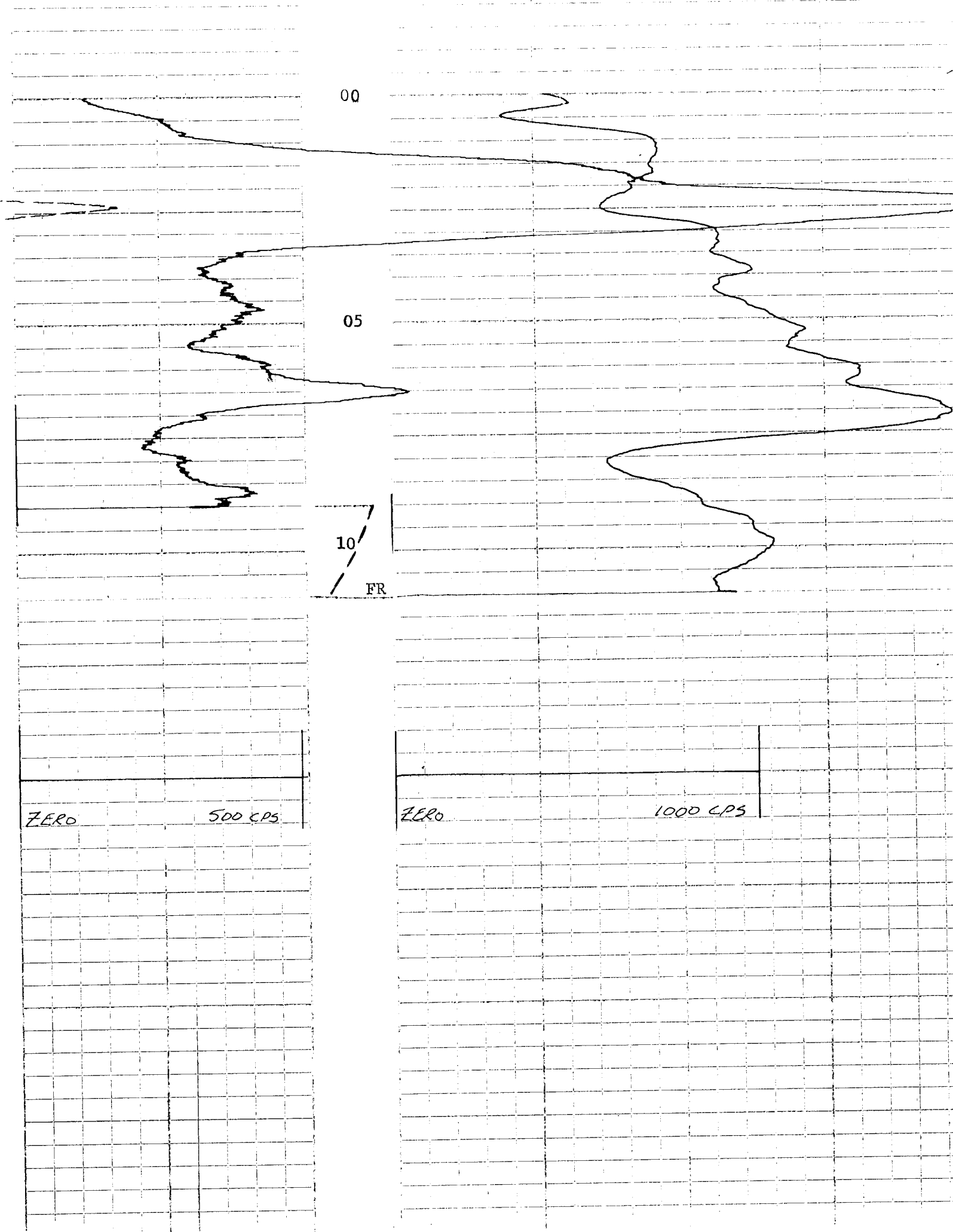
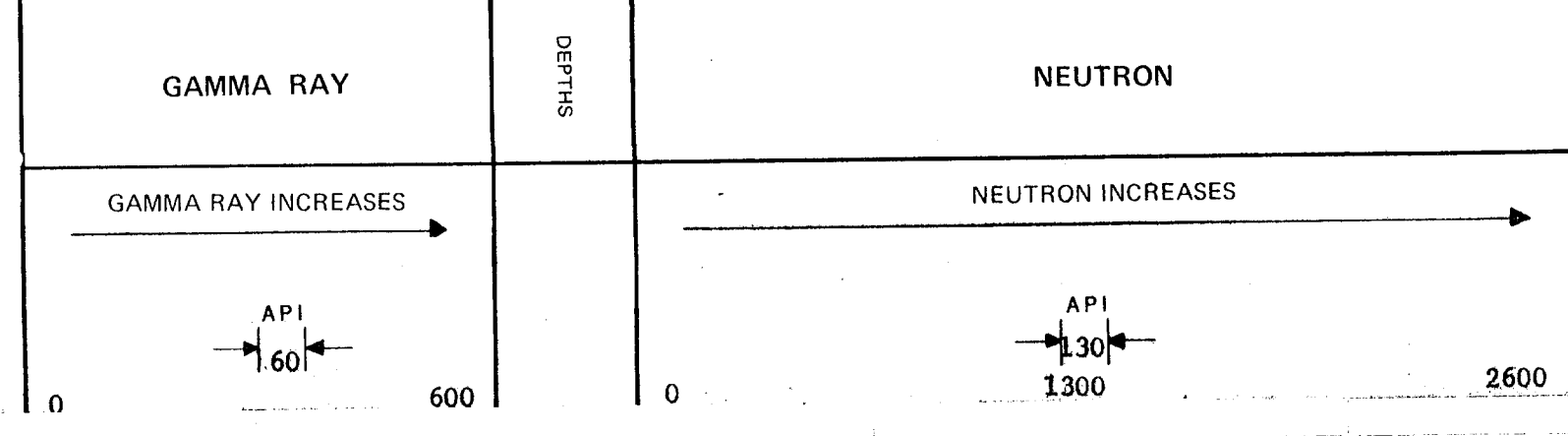
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORCEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 321
SEC	LOCATION	2190.79 N 119.89 E
TWP	RGE	M
W	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	ELV. 1316.58 M
Log Measured from	RIG FLOOR	0.3M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1316.58 M
		METRIC
Run. No.	ONE	
Date	28 NOV 1978	
First Reading	11 M	
Last Reading	0	
Footage Logged	11	
Depth Reached	11.1	
Depth Driller	11.0	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Mfn. Diam.	HQ	
Rm @		
Operating Time	1/2 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By
		BARCLAY

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

GENERAL		GAMMA RAY			NEUTRON						
RUN NO.	DEPTHS		SPEED M/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.
	FROM	TO									
1	0	11	4	3	500	0	60	3	1000	0	130
1	2	3	4	3	500	33 L	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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# ROKE

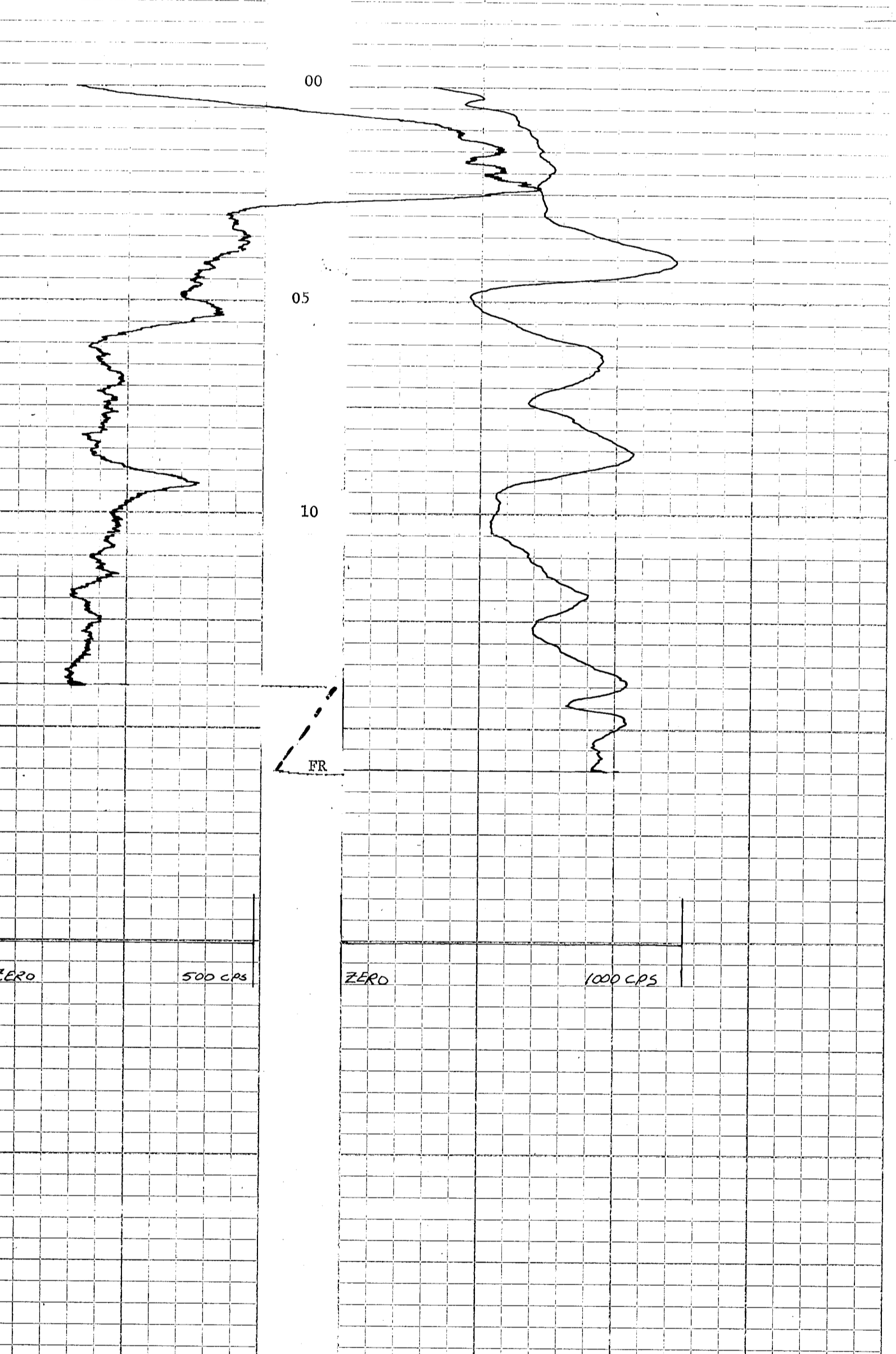
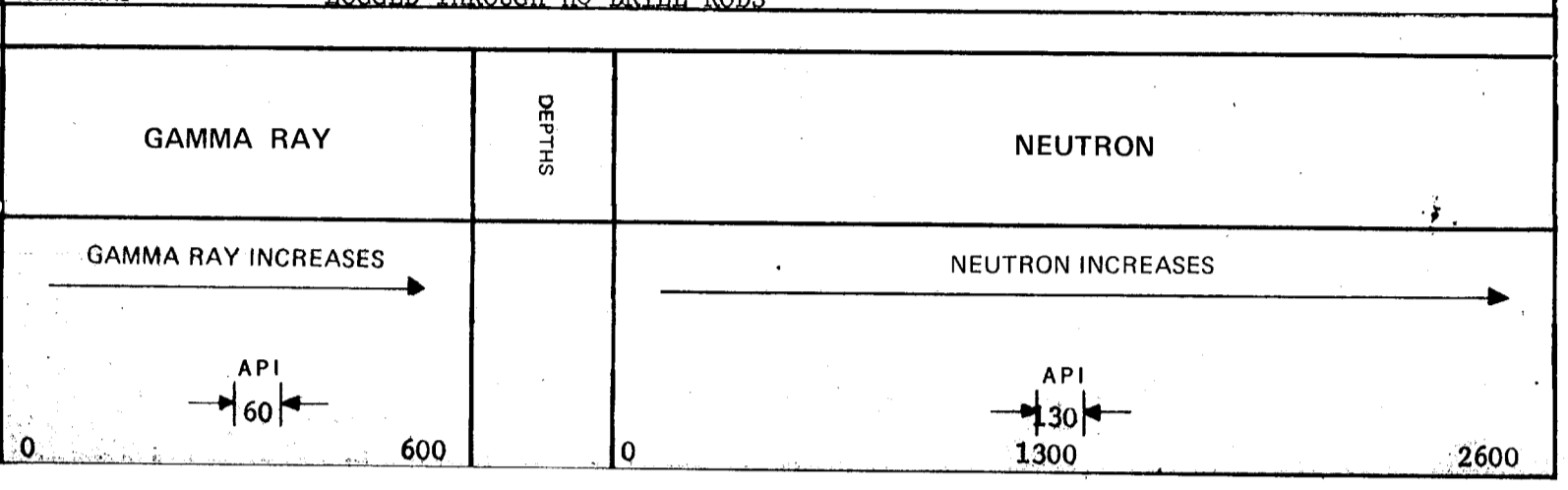
GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 322
SEC	TWP	
RGE	LOCATION	2220.92 N 118.10 E
W. _____ M	FIELD	BLIZZARD
	PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL	Elev. 1317.40 M
Log Measured from	RIG FLOOR	0.3M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1317.40 M
	Other Services:	NTL
Run. No.	ONE	
Date	29 NOV 1978	
First Reading	16 M	
Last Reading	0	
Footage Logged	16	
Depth Reached	16.5	
Depth Driller	16.76	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By
		BARGLAY

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

LOGGING DATA											
RUN NO.	GENERAL		SPEED M/MIN	GAMMA RAY				NEUTRON			
	DEPTHS FROM	TO		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	0	16	4	3	500	0	60	3	1000	0	130



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MINERAL SERVICES BRANCH  
ALBERTA  
7131



# ROKE

GAMMA RAY NEUTRON LOG

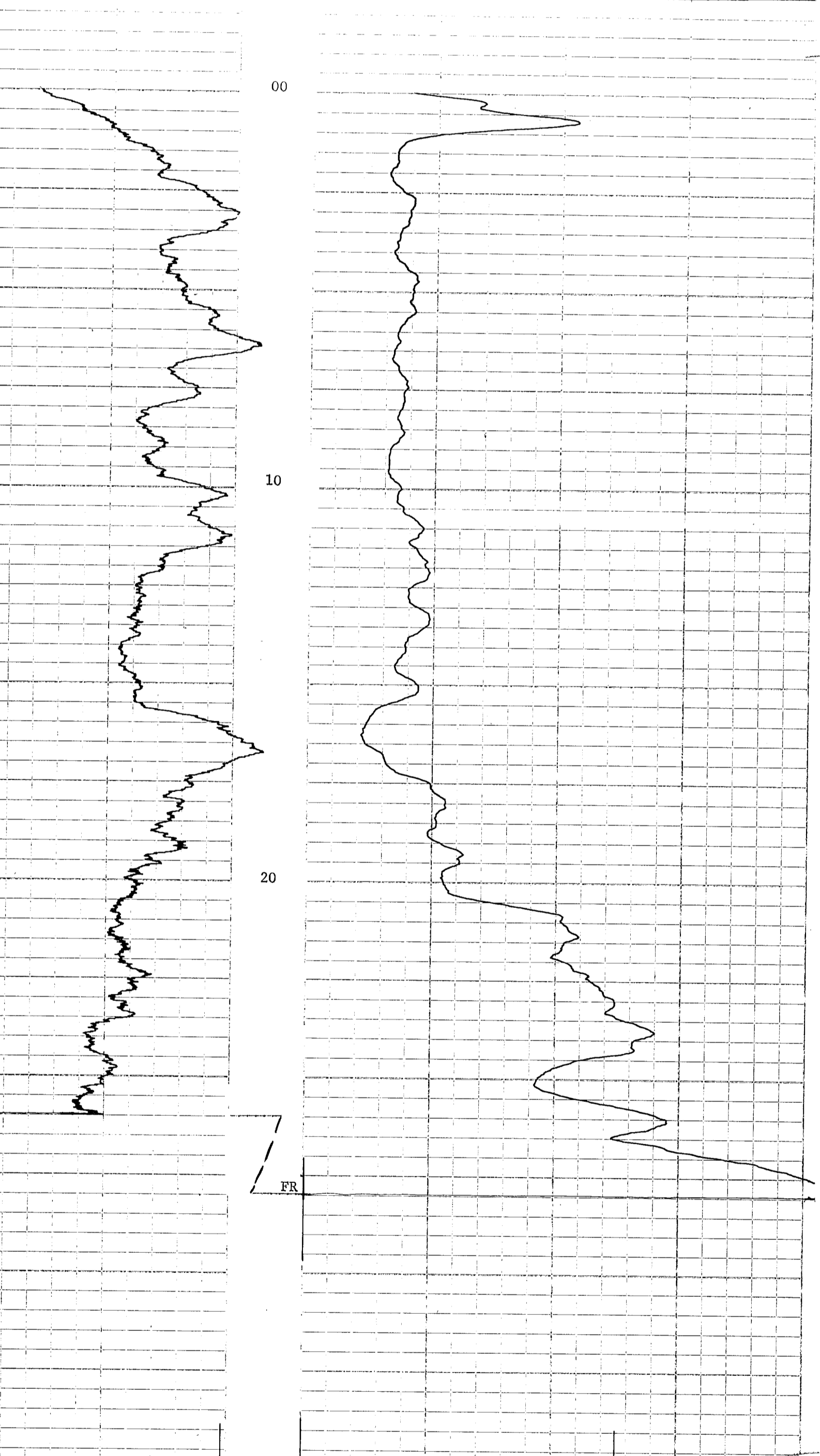
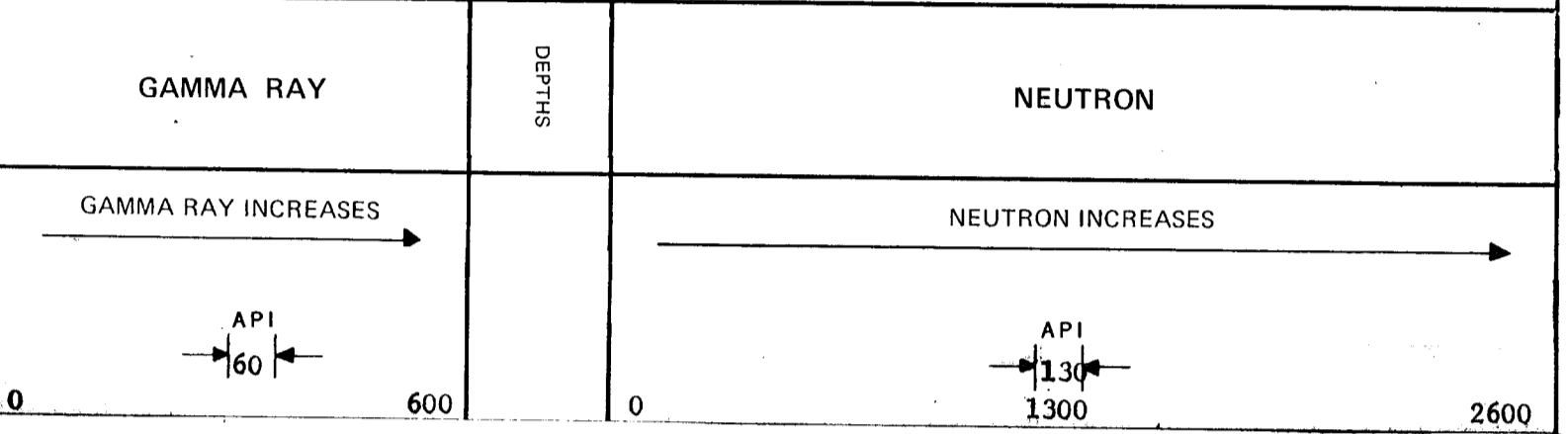
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 323
SEC	LOCATION	2123.34 N 61.38 W
TWP	RGE	M
FIELD	BLIZZARD	
PROVINCE	BRITISH COLUMBIA	Other Services: NIL
Permanent Datum	GROUND LEVEL	Elev. 1321.28 M
Log Measured from	RIG FLOOR	0.35M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1321.28 M
Run No.	ONE	METRIC
Date	30 NOV 1978	
First Reading	28 M	
Last Reading	0	
Footage Logged	28	
Depth Reached	28.4	
Depth Driller	28.65	
Casing Roke		
Casing Driller		
Liquid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	3/2 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By BARCLAY

EQUIPMENT DATA			
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA											
GENERAL			GAMMA RAY				NEUTRON				
RUN NO.	DEPTHS		SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS
	FROM	TO	M/MIN	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.
1	0	28	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HQ DRILL RODS



Handwritten notes and stamps at the bottom of the page:

- 28/2
- 7131

# ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 324
SEC	LOCATION	2122.72 N 29.95 W
TWP	RGE	
RGE	FIELD	BLIZZARD
W	M	
PROVINCE	BRITISH COLUMBIA	
Other Services:	NIL	
Permanent Datum	GROUND LEVEL	Elev. 1321.40 M
Log Measured from	RIG FLOOR	0.35M Above Perm. Datum
Well Depths Measured from	RIG FLOOR	G.L. 1321.40 M
		METRIC
Run. No.	ONE	
Date	30 NOV 1978	
First Reading	18.5 M	
Last Reading	0	
Footage Logged	18.5	
Depth Reached	18.7	
Depth Driller	18.9	
Casing Stake		
Casing Driller	WATER	
Fluid Type	FILL	
Liquid Level	HQ	
Min. Diam.		
Rm @		
Operating Time	4 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By BARCLAY

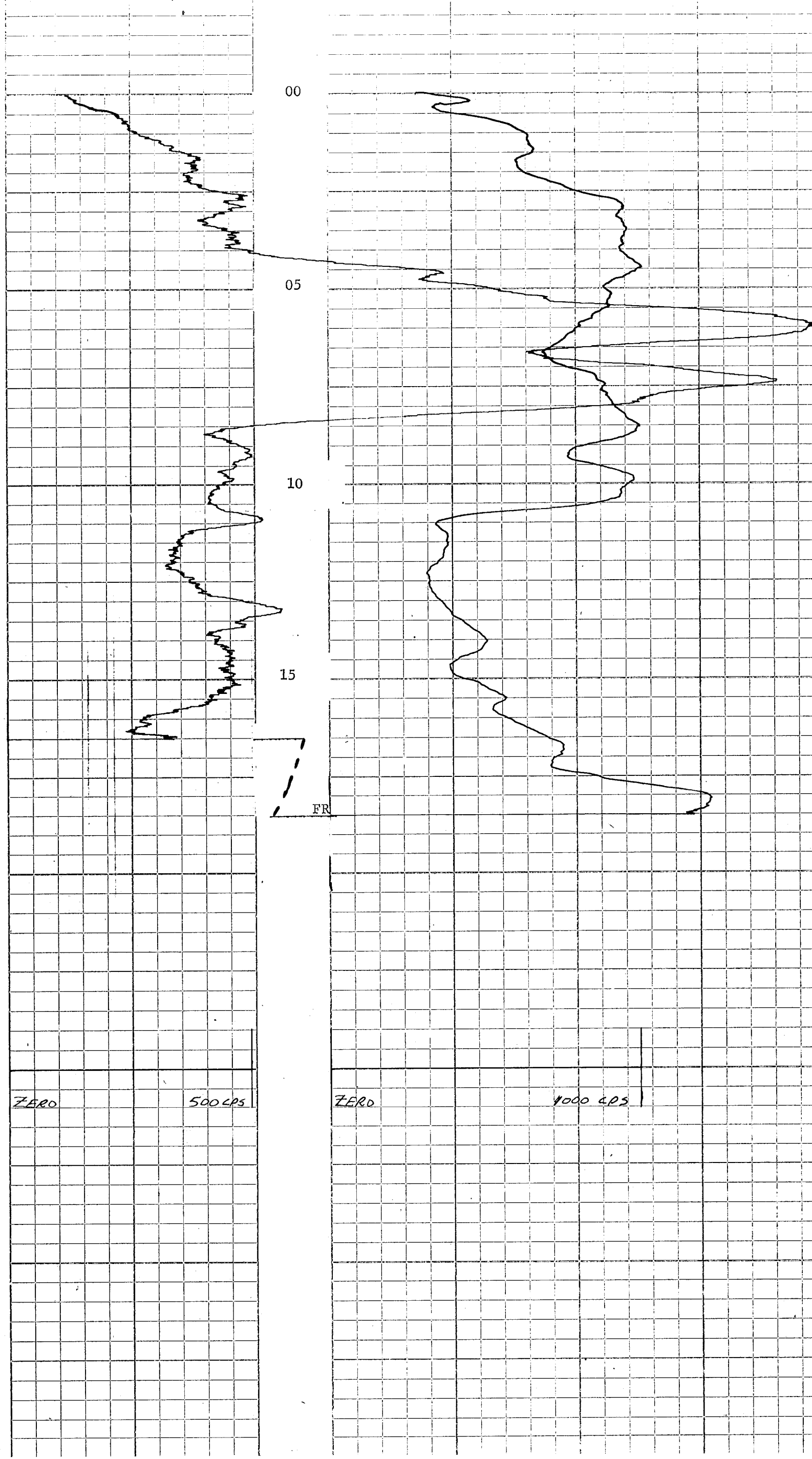
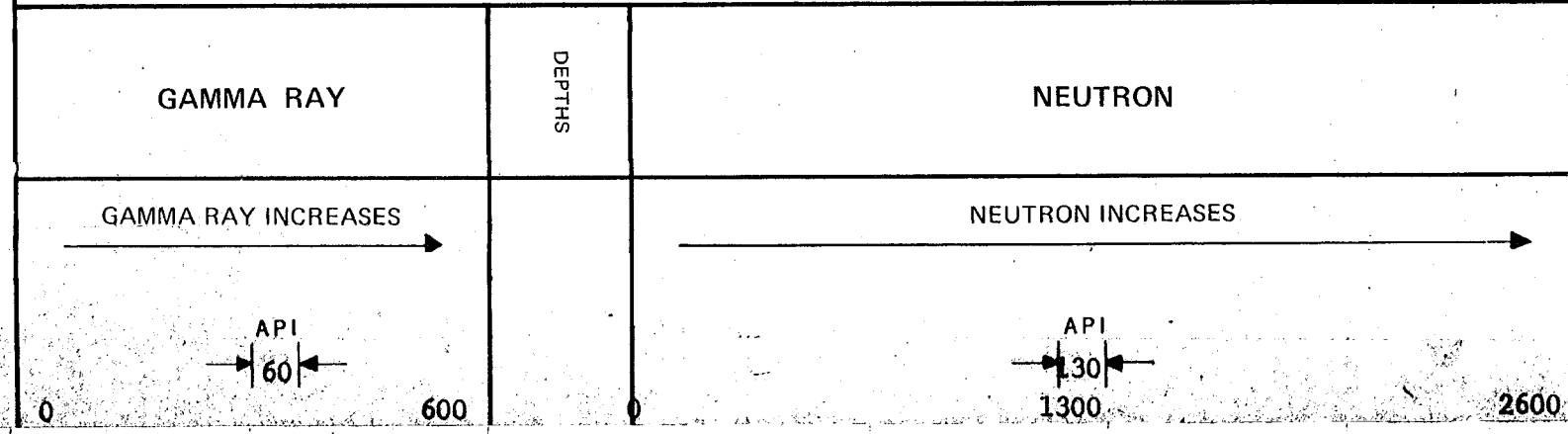
### EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	130	SPACING	43 CM
INSTRUMENT TRUCK NO.	130	TYPE	AmBe
TOOL SERIAL NO.	R GRN 125A 002	STRENGTH	3 CURIES

### LOGGING DATA

RUN NO.	GENERAL		GAMMA RAY				NEUTRON				
	FROM	TO	SPEED M/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	0	18.5	4	3	500	0	60	3	1000	0	130

REMARKS LOGGED THROUGH HO DRILL RODS



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7131

# ROKE

GAMMA RAY NEUTRON LOG

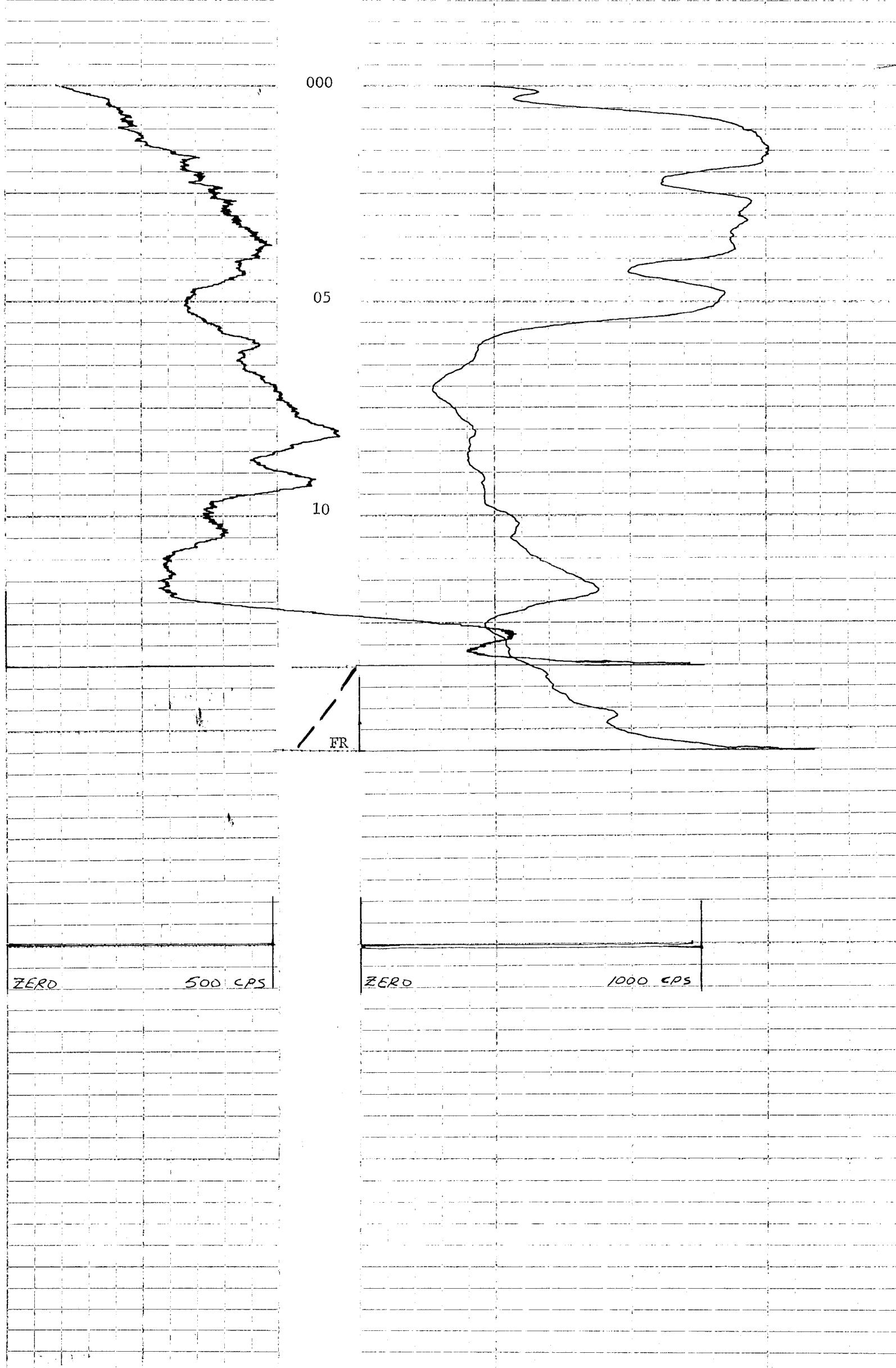
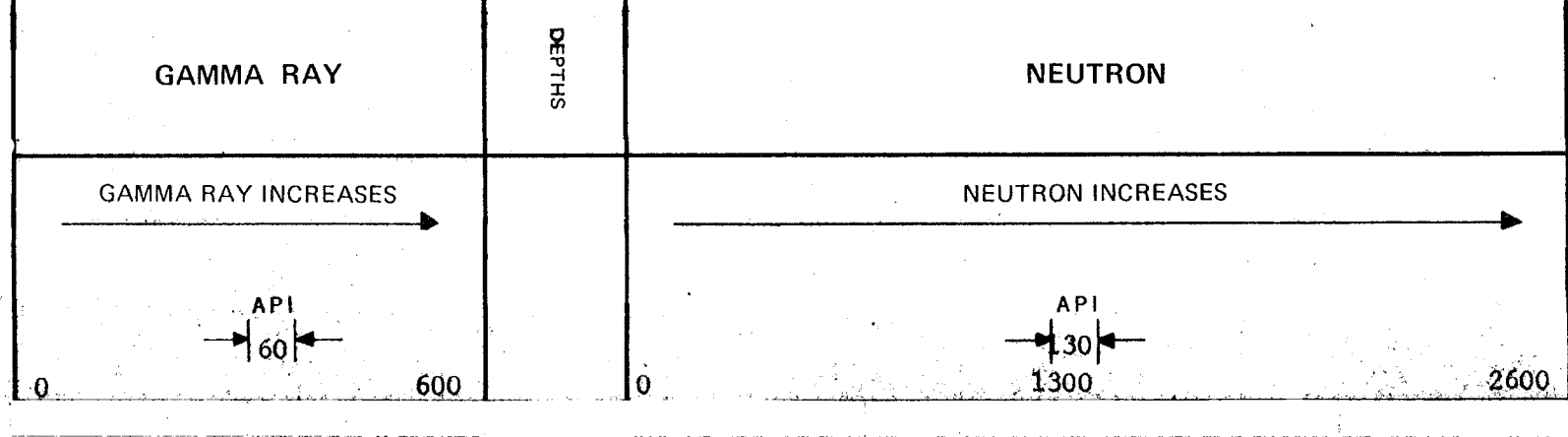
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY	NORGEN ENERGY RESOURCES LIMITED
LSD	WELL	78 - ND - 326
SEC	LOCATION	2074.43 N 182.41 W
TWP	FIELD	BLIZZARD
RGE	PROVINCE	BRITISH COLUMBIA
W	Other Services:	NIL
	Permanent Datum	GROUND LEVEL Elev. 1327.97 M
	Log Measured from	RIG FLOOR 0.35 Above Perm. Datum
	Well Depths Measured from	RIG FLOOR
		K.B. _____
		CSG _____
		G.L. 1327.97 M
		METRIC
Run. No.	ONE	
Date	1 DEC 1978	
First Reading	15.5 M	
Last Reading	0	
Footage Logged	15.5	
Depth Reached	16.0	
Depth Driller	16.5	
Casing Roke		
Casing Driller		
Fluid Type	WATER	
Liquid Level	FULL	
Min. Diam.	HQ	
Rm @		
Operating Time	1/2 HOUR	
Truck No.	130	
Recorded By	KALUGIN	Witnessed By
		BARGAY

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
		SPACING	43 CM
		TYPE	AmBe
		STRENGTH	3 CURIES

GENERAL		GAMMA RAY				NEUTRON					
RUN NO.	DEPTHS	SPEED	T.C.	SENS	ZERO	API G. R. UNITS	T. C.	SENS	ZERO	API N. UNITS	
	FROM	TO	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R	PER LOG DIV.	
1	0	15.5	4	3	500	0	60	3	1000	0	130

REMARKS: LOGGED THROUGH HQ DRILL RODS



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MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT