PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-1
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS-CAL, DIR

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

K.B.
CSG
G.L.

Run No.	ONE		
Date	5 JULY 1980		
First Reading	200.5 M		
Last Reading	10.5		
Footage Logged	190		
Depth Reached	200.9		
Depth Driller	203		
Casing Roke	37.3		
Casing Driller	37.8		
Fluid Type	MUD/ALCOMAR		
Liquid Level	11		
Min. Diam.	8.75 CM		
Rm @ °C	25 @ 25°		
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

Remarks: FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 500 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)

PRIMARY SCALE 0 1000 2000
6500 11500 16500

Depths

RESISTIVITY (OHM-METERS)

SECONDARY SCALE 0 5000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-1
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS-CAL,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	5 JULY 1980
First Reading	201 M
Last Reading	0
Footage Logged	201
Depth Reached	201.5
Depth Driller	203
Casing Roke	37.3
Casing Driller	37.8
Fluid Type	MUD/ALCOMAR
Liquid Level	11
Min. Diam.	8.75 CM
Rm @	
Operating Time	1.5 HOURS
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	201	4	3	100	0	18	2	500	0	150 API

REMARKS LOGGED THROUGH HQ DRILL RODS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES → API 18 0 180		NEUTRON INCREASES → API 150 0 1500 3000

ROKE

SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-1
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No. ONE
Date 5 JULY 1980
First Reading 200 M
Last Reading 0
Footage Logged 200
Depth Reached 200.5
Depth Driller 203
Casing Roke 37.3
Casing Driller 37.8
Fluid Type MUD/ALCOMAR /
Liquid Level 11
Min. Diam. 8.75
Operating Time 1.5 HOURS
Truck No. 36
Recorded By FERGUSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	37.3	8					0.5	5 K	2.37 R	96.96
ONE	37.3	200	8					0.5	5 K	2.09 R	207.96
EXP	88	94	6					0.5	5 K	2.09 R	207.96
EXP	121	132	6					0.5	5 K	2.09 R	207.96
EXP	152	159	6					0.5	5 K	2.09 R	207.96
EXP	192	199	6					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL # 586

DEPTHS

CALIPER
(DIAMETER – CM)

10 15 20

BULK DENSITY
(GRAMS/CC)

1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-2
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, DENS-CAL, DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run No.	ONE		
Date	7 JULY 1980		
First Reading	120 M		
Last Reading	32.5		
Footage Logged	87.5		
Depth Reached	120.6		
Depth Driller	124		
Casing Roke	34.7		
Casing Driller	33.5		
Fluid Type	MUD/ALCOMAR		
Liquid Level	0		
Min. Diam.	8.75		
Rm @ °C	25 @ 25°		
Operating Time	1 HOUR		
Truck No.	36		
Recorded By	FERGUSON	Witnessed By	FLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 180 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.	
LSD	COMPANY PETRO-CANADA (MINING DEPT.)
SEC	WELL MD-80-2
TWP	LOCATION MONKMAN PASS PROJECT
RGE	FIELD DUKE MOUNTAIN
W M	PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev.

Log Measured from GROUND LEVEL Above Perm. Datum

Well Depths Measured from GROUND LEVEL

Other Services: FBL, DENS-CAL, DIR

K.B.

CSG

G.L.

Run No.	ONE (THRU RODS)	TWO (OPEN HOLE)
Date	7 JULY 1980	7 JULY 1980
First Reading	122.5 M	120 M
Last Reading	0	0
Footage Logged	122.5	120
Depth Reached	122.7	120.5
Depth Driller	124.0	124.0
Casing Roke	34.7	34.7
Casing Driller	33.5	33.5
Fluid Type	MUD/ALCOMAR	MUD/ALCOMAR
Liquid Level	0	0
Min. Diam.	8.75 CM	8.75 CM
Rm @		
Operating Time	1 HOUR	1 HOUR
Truck No.	36	36
Recorded By	FERGUSON	Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	122.5	4	3	100	0	18	2	500	0	150 API
TWO	0	120	4	3	100	0	18	2	500	0	150 API

REMARKS RUN #1 LOGGED THROUGH HQ DRILL RODS

RUN #2 LOGGED IN OPEN HOLE

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-2
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: GRN, FBL, DIR
Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No. ONE
Date 7 JULY 1980
First Reading 120 M
Last Reading 0
Footage Logged 120
Depth Reached 120.7
Depth Driller 124.0
Casing Roke 34.7
Casing Driller 33.5
Fluid Type MUD/ALCOMAR
Liquid Level 0
Min Diam. 8.75
Operating Time 1.5 HOURS
Truck No. 36
Recorded By FERGUSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	33.2	8					0.5	5 K	2.37 R	96.96
ONE	33.2	120	8					0.5	5 K	2.09 R	207.96
EXP	75	84	6					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL #586

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-3
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, DENS-CAL
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	GROUND LEVEL Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run No.	ONE		
Date	10 JULY 1980		
First Reading	127 M		
Last Reading	5.5		
Footage Logged	121.5		
Depth Reached	127.4		
Depth Driller	128.6		
Casing Roke	9.0		
Casing Driller	9.1		
Fluid Type	MUD/ALCOMAR		
Liquid Level	5.5		
Min. Diam.	8.75		
Rm @ °C	22.2 @ 25		
Operating Time	1 HOUR		
Truck No.	36		
Recorded By	FERGUSON	Witnessed By	PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 7000 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
		PRIMARY SCALE 0 1000 2000
SECONDARY SCALE 0 5000		6500 11500 16500

TR-Monkman SDL(3)A

ROKE

GAMMA RAY NEUTRON LOG

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-3
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA

Other Services: FBL, DENS-CAL

Permanent Datum	GROUND LEVEL	Elev.	K.B.
Log Measured from	GROUND LEVEL	Above Perm. Datum	CSG
Well Depths Measured from	GROUND LEVEL		G.L.

Run No.	ONE
Date	10 JULY 1980
First Reading	127.5 M
Last Reading	0
Footage Logged	127.5
Depth Reached	127.8
Depth Driller	128.6
Casing Roke	9.0
Casing Driller	9.1
Fluid Type	MUD/ALCOMAR
Liquid Level	5.5
Min. Diam.	8.75
Rm. @	
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	4.7	4	3	100	0	18	2	1000	0	300 API
ONE	4.7	127.5	4	3	100	0	18	2	500	0	150 API

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 300
0 — 180		0 — 3000 — 6000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

Rr-Monkman 80(3)A

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-3
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M

Other Services: GRN, FBL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No.	ONE
Date	10 JULY 1980
First Reading	126.5 M
Last Reading	0
Footage Logged	126.5
Depth Reached	127.7
Depth Driller	128.6
Casing Roke	9.0
Casing Driller	9.14
Fluid Type	MUD/ALCOMAR
Liquid Level	5.5
Min. Diam.	8.75
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	9	8					0.5	5 K	2.37 R	96.96
ONE	9	126.5	8					0.5	5 K	2.09 R	207.96
EXP	38	53	4					0.5	5 K	2.09 R	207.96
EXP	71	80	4					0.5	5 K	2.09 R	207.96
EXP	110	116	4					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL #586

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-4
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, DENS-CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No.	ONE		
Date	11 JULY 1980		
First Reading	70.5 M		
Last Reading	2.5		
Footage Logged	68.0		
Depth Reached	70.9		
Depth Driller	72.2		
Casing Roke	5.0		
Casing Driller	4.8		
Fluid Type	MUD/ALCOMAR		
Liquid Level	2.5		
Min. Diam.	8.75 CM		
Rm @ °C	32.3 @ 25°		
Operating Time	0.5 HOUR		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 700 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W _____ M

COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-4
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA

Other Services: FBL,DENS-CAL

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from GROUND LEVEL ____ Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE		
Date	11 JULY 1980		
First Reading	71 M		
Last Reading	0		
Footage Logged	71		
Depth Reached	71.2		
Depth Driller	72.2		
Casing Roke	5.0		
Casing Driller	4.8		
Fluid Type	MUD/ALCOMAR		
Liquid Level	2.5		
Min. Diam.	8.75 CM		
Rm @			
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	71	4	3	100	0	18	2	500	0	150 API

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 150 0 1500 3000

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-4
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL

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

K.B.
CSG
G.L.

Run No.	ONE		
Date	11 JULY 1980		
First Reading	70 M		
Last Reading	0		
Footage Logged	70		
Depth Reached	70.4		
Depth Driller	72.2		
Casing Roke	5.0		
Casing Driller	4.8		
Fluid Type	MUD/ALCOMAR		
Liquid Level	2.5		
Min. Diam.	8.75 CM		
Operating Time	1 HOUR		
Truck No.	36	546	

Recorded By [redacted] Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	5	8					0.5	5 K	2.37 R	98.96
ONE	5	70	8					0.5	5 K	2.09 R	207.96
EXP	55	62	4					0.5	5 K	2.09 R	207.96
EXP	3	9	4					0.5	5 K	2.09 R	207.96

REMARKS
DENS TOOL #554AS
CAL TOOL #586

CALIPER
(DIAMETER - CM)

BULK DENSITY
(GRAMS/CC)

DEPTHS

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MD-80-5

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: DENS-CAL

Permanent Datum GROUND LEVEL Elev.

Log Measured from GROUND LEVEL Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run No.	ONE		
Date	14 JULY 1980		
First Reading	120 M		
Last Reading	0		
Footage Logged	120		
Depth Reached	120.1		
Depth Driller	121.9		
Casing Roke	22.7		
Casing Driller	22.8		
Fluid Type	MUD/ALCOMAR		
Liquid Level	0.0		
Min. Diam.	8.75 CM		
Rm @			
Operating Time	1 HOUR		
Truck No.	36	546	

Recorded By FERGUSON Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY	
RUN NO.	ONE
TOOL MODEL NO.	
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	SCINTILLATION
LENGTH	102 MM
DISTANCE TO N. SOURCE	2.1 M
GENERAL	
HOIST TRUCK NO.	36
INSTRUMENT TRUCK NO.	36
TOOL SERIAL NO.	R-GRN 125A003

NEUTRON	
RUN NO.	ONE
LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.	
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	PROPORTIONAL
LENGTH	152 MM
SOURCE MODEL NO.	MRC-N-SS-W
SERIAL NO.	188
SPACING	43 CM
TYPE	AmBe
STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	120	4	3	100	0	18	2	500	0	150 API

REMARKS

GAMMA RAY — GAMMA RAY INCREASES — API 18 — 0 — 180

DEPTHS

NEUTRON — NEUTRON INCREASES — API 150 — 1500 — 3000

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.

LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-5
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN

Permanent Datum GROUND LEVEL Elev. K.B.
Log Measured from GROUND LEVEL Above Perm. Datum CSG
Well Depths Measured from GROUND LEVEL G.L.

Run. No.	ONE
Date	14 JULY 1980
First Reading	119 M
Last Reading	0
Footage Logged	119
Depth Reached	119.4
Depth Driller	121.9
Casing-Roke	22.7
Casing-Driller	22.8
Fluid Type	MUD/ALCOMAR
Liquid Level	0.0
Min. Diam.	8.75 CM
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	FLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	22.7	8					0.5	5 K	2.37 R	96.96
ONE	22.7	119	8					0.5	5 K	2.09 R	207.96
EXP	33	46	4					0.5	5 K	2.09 R	207.96
EXP	68	75	4					0.5	5 K	2.09 R	207.96
EXP	113	119	4					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL #586

PR-Monkman 80 (3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-6
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W	M
Other Services:	GRN, DENS-CAL
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	17 JULY 1980
First Reading	52 M
Last Reading	20
Footage Logged	32
Depth Reached	52.4
Depth Driller	53.9
Casing Roke	6.2
Casing Driller	6.0
Fluid Type	MUD/ALCOMAR
Liquid Level	21
Min. Diam.	8.75 CM
Rm @ °C	50 @ 25°
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

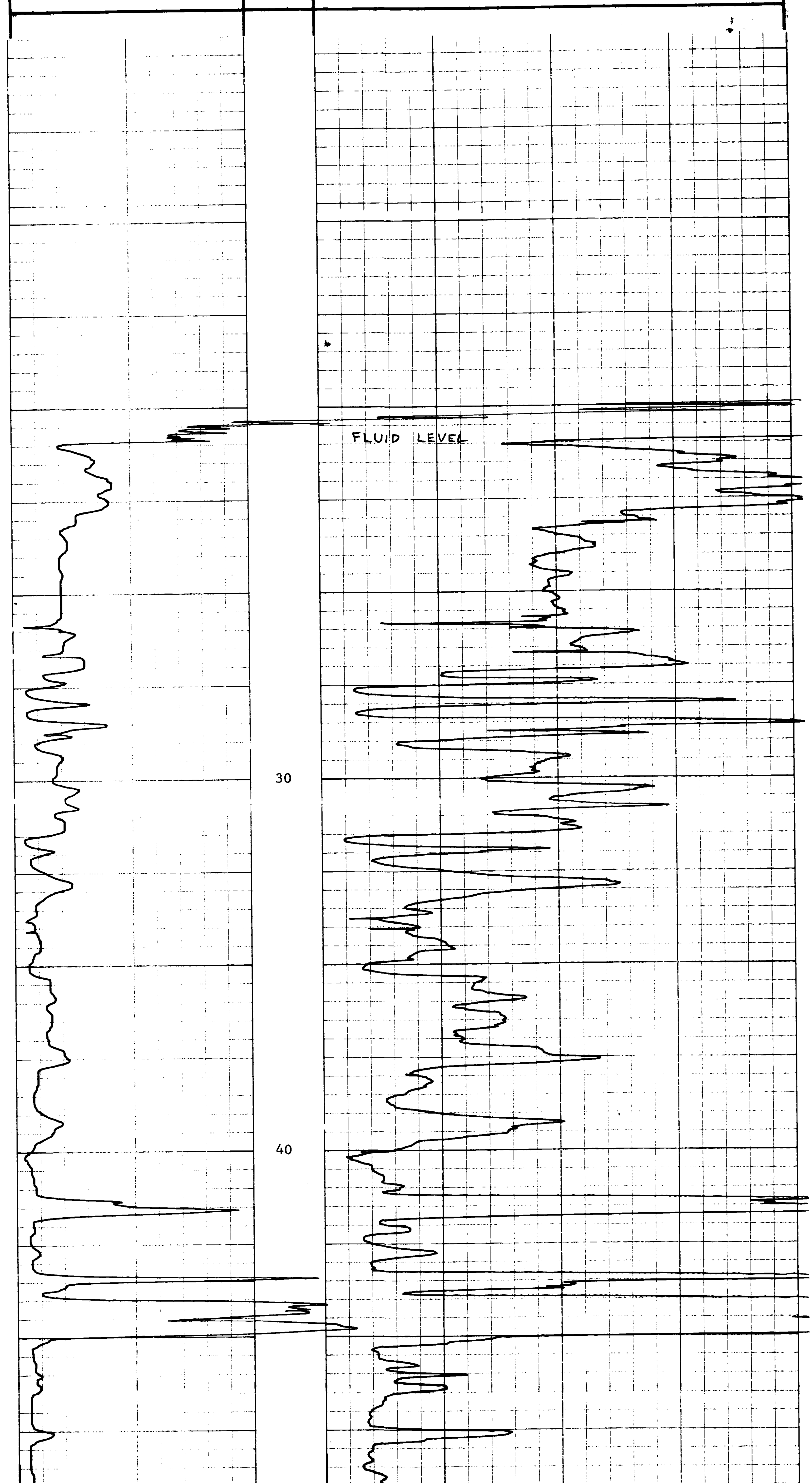
546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 500 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE
0 5000		0 1000 2000
		6500 11500 16500



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PE-Monkman 80(3)A

FILE NO.

LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MD-80-6

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: FBL, DENS-CAL

Permanent Datum GROUND LEVEL Elev. ____ K.B. ____
Log Measured from GROUND LEVEL ____ Above Perm. Datum CSG ____
Well Depths Measured from GROUND LEVEL G.L. ____

Run. No.	ONE
Date	17 JULY 1980
First Reading	52.5 M
Last Reading	0
Footage Logged	52.5
Depth Reached	52.7
Depth Driller	53.9
Casing Roke	6.2
Casing Driller	6.0
Fluid Type	MUD/ALCOMAR
Liquid Level	22.25
Min. Diam.	8.75 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	22	4	3	100	0	18	2	1000	6 L	300 API
ONE	22	52.6	4	3	100	0	18	2	500	0	150 API

REMARKS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-6
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL

Permanent Datum GROUND LEVEL Elev. ________
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ________
CSG ________
G.L. ________

Run. No.	ONE		
Date	17 JULY 1980		
First Reading	52 M		
Last Reading	0		
Footage Logged	52		
Depth Reached	52.2		
Depth Driller	53.9		
Casing Roke	6.2		
Casing Driller	6.0		
Fluid Type	MUD/ALCOMAR		
Liquid Level	21		
Min. Diam.	8.75 CM		
Operating Time	1 HOUR		
Truck No.	36		

546

Recorded By FERGUSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	6	8					0.5	5 K	2.37 R	96.96
ONE	6	52	8					0.5	5 K	2.09 R	207.96
EXP	40	46	4					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL #586

CALIPER
(DIAMETER - CM)

DEPTHS

BULK DENSITY
(GRAMS/CC)

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MD-80-7
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS-CAL

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	19 JULY 1980		
First Reading	110.5 M		
Last Reading	0		
Footage Logged	110.5		
Depth Reached	110.5		
Depth Driller	111.8		
Casing Roke	3.0		
Casing Driller	3.0		
Fluid Type	MUD/ALCOMAR		
Liquid Level	1.25		
Min. Diam.	8.75		
Rm @ °C	36.36		
Operating Time	1 HOUR		
Truck No.	36	546	

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 600 OHMS
7 ELECTRODE SONDE 20 CM BEAMWIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS) | PRIMARY SCALE 0 1000 2000 | 6500 11500 16500

Depths

RESISTIVITY (OHM-METERS) | SECONDARY SCALE 0 5000

PR - Monkman 80 (3) A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MD-80-7

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: FBL, DENS-CAL

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	19 JULY 1980		
First Reading	111 M		
Last Reading	0		
Footage Logged	111		
Depth Reached	111.3		
Depth Driller	111.8		
Casing Roke	3.0		
Casing Driller	3.0		
Fluid Type	MUD/ALCOMAR		
Liquid Level	1.25		
Min. Diam.	8.75 CM		
Rm @			
Operating Time	1 HOUR		
Truck No.	36		

546

Recorded By FERGUSON Witnessed By PLACHNER

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	2.1 M	LENGTH	152 MM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	110.5	4	3	100	0	18	2	500	0	150 API

REMARKS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-7
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, FBL
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	GROUND LEVEL Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	
Run. No.	ONE
Date	19 JULY 1980
First Reading	110.5 M
Last Reading	0
Footage Logged	110.5
Depth Reached	110.7
Depth Driller	111.8
Casing Roke	3.0
Casing Driller	3.0
Fluid Type	MUD/ALCOMAR
Liquid Level	1.25
Min. Diam.	8.75 CM
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	110.5	8					0.5	5 K	2.09 R	207.96
EXP	4	8	4					0.5	5 K	2.09 R	207.96
EXP	16	20	4					0.5	5 K	2.09 R	207.96
EXP	35	49	4					0.5	5 K	2.09 R	207.96
EXP	64	72	4					0.5	5 K	2.09 R	207.96
EXP	90	104	4					0.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS
CAL TOOL #586

PR-Monkman PD(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MD-80-8
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	NIL
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run No.	ONE
Date	22 JULY 1980
First Reading	134.0 M
Last Reading	0
Footage Logged	134.0
Depth Reached	134.4
Depth Driller	186.5
Casing Roke	
Casing Driller	14.3
Fluid Type	MUD/ALCOMAR
Liquid Level	0.0
Min. Diam.	8.75 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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
ONE	0	134	4	3	100	0	18	2	500	0	150 API

REMARKS RUN #1 LOGGED THROUGH HQ DRILL RODS
RUN #2 LOGGED THROUGH OPEN HOLE, BLOCKED AT 5 M. BY LOOSE CASING

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 150
0 180		0 1500 3000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR-Monkman 80(3)A

FILE NO.

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-1

LOCATION MONKMAN COAL PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

LSD

SEC

TWP

RGE

W M

Other Services: DIR, GRN, DENS, CAL

Permanent Datum GROUND LEVEL Elev.

Log Measured from RIG TABLE 1.2 M Above Perm. Datum

Well Depths Measured from RIG TABLE

K.B.

CSG

G.L.

Run. No.	ONE
Date	15 FEB 80
First Reading	218.25 M
Last Reading	9.25
Footage Logged	209.0
Depth Reached	220
Depth Driller	
Casing Roke	
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	9.25
Min. Diam.	13 CM
Rm @ °C	27.8 @ 46°F
Operating Time	1 HR
Truck No.	SU 1

Recorded By B. BANKS

Witnessed By DE NYS

546

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 10 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-1
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FRL, DIR, DENS, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from RIG TABLE 1.2M Above Perm. Datum
Well Depths Measured from RIG TABLE
K.B.
CSG
G.L.

Run No.	ONE
Date	15 FEB 80
First Reading	220 M
Last Reading	00
Footage Logged	220
Depth Reached	220.2
Depth Driller	220
Casing Roke	2.5
Casing Driller	2.0
Fluid Type	AIR/WATER
Fluid Level	11.5
Max. Diam.	13 CM
Rm @ °F	27.8 @ 46
Operating Time	1 HR
Truck No.	SU 1

Recorded By B. BANKS
Witnessed By DE NYS

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	10.5	4	3	100	-	18	3	1000	1L	300
	10.5	220	4	3	100	-	18	3	500	1L	150

REMARKS LOG RECORDED 1.75 METRES TOO HIGH

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 300 300 3300 6300

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-1

LOCATION MONKMAN COAL PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services:
GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from RIG TABLE 1.2 M Above Perm. Datum
Well Depths Measured from RIG TABLE

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	15 FEB 80		
First Reading	218 M		
Last Reading	00		
Footage Logged	218		
Depth Reached	218.9		
Depth Driller	220		
Casing Roke	2.5		
Casing Driller	2.0		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13 CM		
Operating Time	2 HRS		
Truck No.	SU 1		

546

Recorded By B. BANKS
Witnessed By DE NYS

SIDEWALL DENSILOG			
CPS/DIV	ZERO DIV.L OR R	SENS SETTINGS	T.C. SEC.
188.89	2.08R	5000	0.2

GAMMA RAY			
API G.R. UNITS PER LOG DIV.	ZERO DIV.L OR R	SENS SETTINGS	T.C. SEC.

GENERAL			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED M/MIN
ONE	00	218	6

REMARKS
DENS #128A
CAL #879

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.

LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-11
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DIR, DENS, CAL

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

K.B.
CSG
G.L.

Run. No.	ONE			
Date	4 MAR 80			
First Reading	121.0 M			
Last Reading	25.5			
Footage Logged	95.5			
Depth Reached	121.9			
Depth Driller	128			
Casing Roke	25.5			
Casing Driller	25.9			
Fluid Type	AIR/WATER			
Liquid Level				
Min. Diam.	13.3 CM			
Rm @ °C	26.2 @ 42°F			
Operating Time	½ HR			
Truck No.	SU 1			
Recorded By	B. BANKS	Witnessed By	PLACHNER	

546

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 15 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-11
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DIR, FRI, DENS, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	6 MAR 80
First Reading	122 M
Last Reading	00
Footage Logged	122
Depth Reached	122.2
Depth Driller	128
Casing Roke	25.5
Casing Driller	25.9
Fluid Type	AIR/WATER
Liquid Level	11.3
Min. Diam.	13.3 CM
Rm @ °F	
Operating Time	1 HR
Truck No.	SU 1

Recorded By B. BANKS
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	10	4	3	100	0	18	3	1000	0	300
	10	122	4	3	100	0	18	3	500	0	150

REMARKS

PE-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

CALIPER

FILE NO.

LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-11
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL, DIR, GRN

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL ______ Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE
Date	6 MAR 80
First Reading	118 M
Last Reading	00
Footage Logged	118
Depth Reached	118.9
Depth Driller	128
Casing Roke	25.5
Casing Driller	25.9
Fluid Type	AIR/WATER
Liquid Level	
Min. Diam.	13.3 CM
Operating Time	1¼ HRS
Truck No.	SU 1

Recorded By B. BANKS Witnessed By PLACHNER

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GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	118	5					0.2	5000	2.08R	188.89

REMARKS DENS #128A
CAL #879

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-16
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (THRU RODS)
GRN, DIR, DENS, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	7 MAR 80		
First Reading	127 M		
Last Reading	12.75		
Footage Logged	114.25		
Depth Reached	127.9		
Depth Driller	128.2		
Casing Roke	13		
Casing Driller	13		
Fluid Type	AIR/WATER		
Liquid Level	12.75		
Min. Diam.	13.3 CM		
Rm @ °C	31.6 @ 48°F		
Operating Time	½ HR		
Truck No.	SU 1		

546

Recorded By B. BANKS
Witnessed By PLACHNER

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 1500 OHMS
7 ELECTRODE SONDE 20 CM BEAMWIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)

PRIMARY SCALE

0 1000 2000

6500 11500 16500

Depths

RESISTIVITY (OHM-METERS)

SECONDARY SCALE

0 5000

Pr - Monkman 80(3)A

PR - Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-16
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (OPEN HOLE)
DENS.CAL.FB.DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	7 MAR 80
First Reading	127 M
Last Reading	00
Footage Logged	127
Depth Reached	127.2
Depth Driller	128.2
Casing Roke	13
Casing Driller	13
Fluid Type	AIR/WATER
Liquid Level	19.75
Min. Diam.	13.3 CM
Rm @	
Operating Time	1½ HRS
Truck No.	SU 1

Recorded By B. BANKS
Witnessed By PLACHNER

546

EQUIPMENT DATA

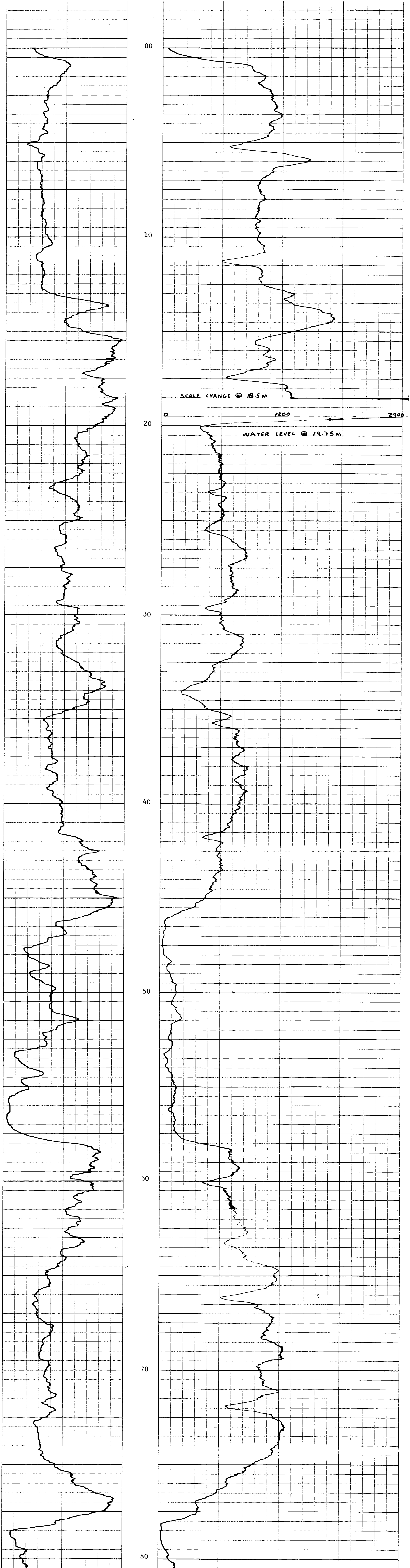
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	18.5	4	3	100	0	12	3	1000	0	240
	18.5	127	4	3	100	0	12	3	500	0	120

REMARKS LOGGED THROUGH DRILL RODS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 12 0 120		API 240 0 2400 4800



Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.

LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-16
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	7 MAR 80
First Reading	128 M
Last Reading	00
Footage Logged	128
Depth Reached	128.2
Depth Driller	128.2
Casing Roke	13
Casing Driller	13
Fluid Type	AIR/WATER
Liquid Level	12.75
Min. Diam.	13.3 CM
Rm @ °F	31.6 @ 48
Operating Time	1 HR
Truck No.	SU 1

Recorded By B. BANKS Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	128	4	3	100	0	18	3	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 150 0 1500 3000

Pr - Monkman 80(3)A

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-16

LOCATION MONKMAN COAL PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services:
GRN (THRU RODS)
GRN, FBL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	7 MAR 80		
First Reading	127		
Last Reading	00		
Footage Logged	127		
Depth Reached	127.9		
Depth Driller	128.2		
Casing Roke	13		
Casing Driller	13		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Operating Time	1½ HRS		
Truck No.	SU 1	546	

Recorded By B. BANKS Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	127	5					0.2	5000	2.08R	188.89

REMARKS DENS #128A
CAL #879

CALIPER
DIAMETER – CENTIMETERS
10 15 20 25 30

DEPTHS

BULK DENSITY
(GRAMS/CC)

Pr - Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-17
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	DIR GRN, DEN, CAL
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING
Above Perm. Datum	20 CM
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	9 MAR 80
First Reading	187.9 M
Last Reading	98.0
Footage Logged	89.9
Depth Reached	188.8
Depth Driller	189.1
Casing Roke	98.0
Casing Driller	
Fluid Type	WATER
Liquid Level	00
Min. Diam.	13.3 CM
Rm @ °C	16.39 @ 20
Operating Time	45 MIN
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

5446

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 100 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-17 (EXTENSION LOG)

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services:

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

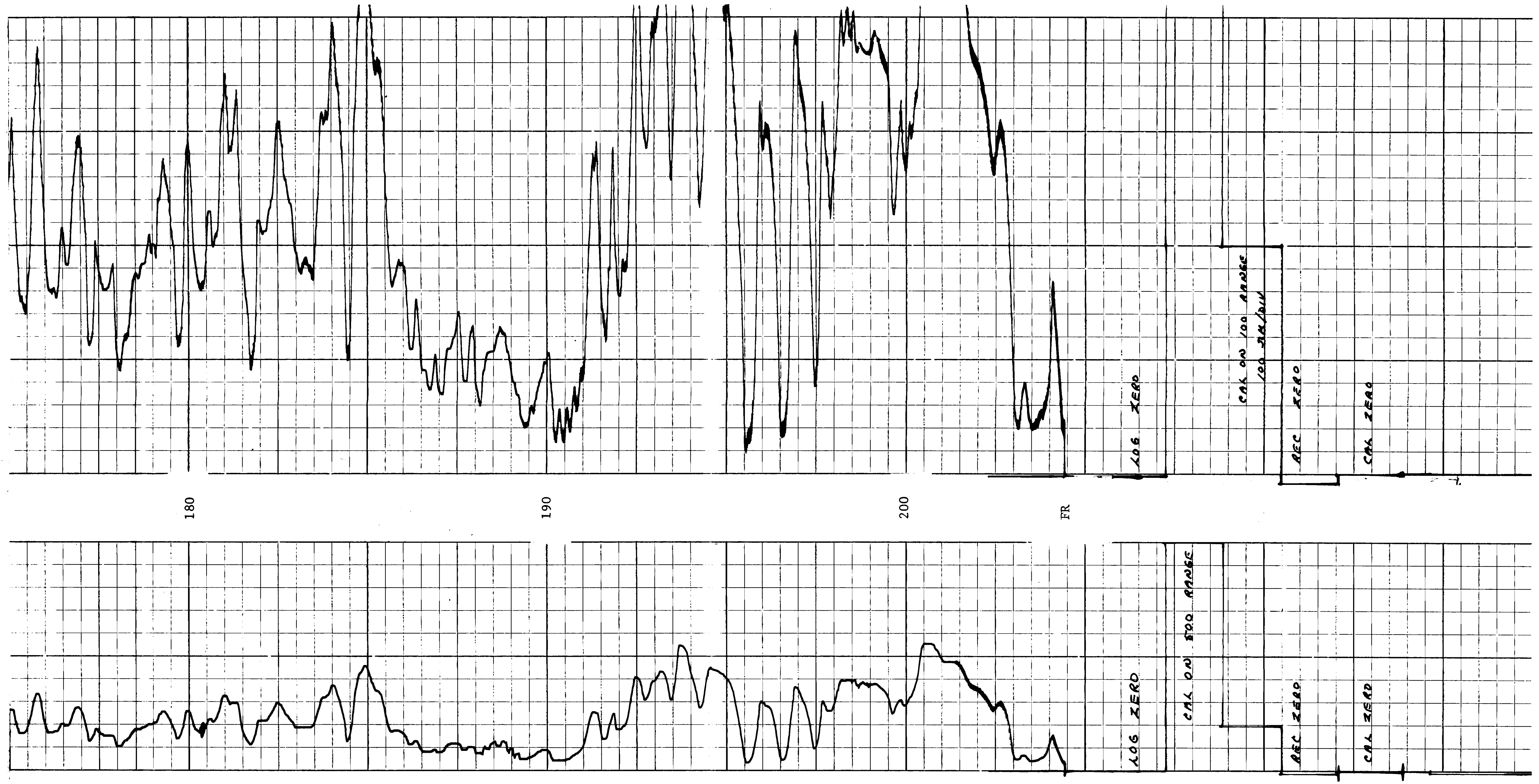
K.B. ______
CSG ______
G.L. ______

Run. No.	TWO		
Date	18 MAR 80		
First Reading	204.50 M		
Last Reading	180.00		
Footage Logged	24.50		
Depth Reached	205.40		
Depth Driller	207.40		
Casing Roke	98.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	00		
Min. Diam.	13.3 CM		
Rm @ °C	16.39 @ 20		
Operating Time	45 MIN		
Truck No.	36	546	

Recorded By CARLSON Witnessed By PLACHNER

Remarks FBL # ______ CURRENT RANGE ______ MUDFISH RESISTANCE ______ OHMS
______ ELECTRODE SONDE ______ CM BEAM WIDTH ______ CM ARRAY
PRIMARY ______ OHM/DIV SECONDARY ______ OHM/DIV
SECOND LOG REQUIRED AFTER HOLE WAS DRILLED DEEPER.

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE



ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

PR-Monkman 82(3)A

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-17
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DIR
GRN, DEN, CAL, FRI.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF DRILL PIPE 1.22M above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	9 MAR 80
First Reading	181.70 M
Last Reading	00
Footage Logged	181.7
Depth Reached	182.0
Depth Driller	189.1
Casing Roke	98.0
Casing Driller	
Fluid Type	WATER
Liquid Level	00
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	207 MM	LENGTH	150 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A006	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	181.7	4	4	100	0	12	4	500	0	90

REMARKS LOGGED THROUGH DRILL STEM
DRILLER PULLED ONE STEM OFF BOTTOM

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 12		API 90
0 — 120		0 — 900 — 1800

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-17
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DENS, CAL, FRI.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	9 MAR 80
First Reading	188.6 M
Last Reading	00
Footage Logged	188.6
Depth Reached	188.9
Depth Driller	189.1
Casing Roke	98.0
Casing Driller	
Fluid Type	WATER
Liquid Level	00
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	207 MM	LENGTH	150 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A006	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	188.6	4	4	100	0	18	4	500	0	150

REMARKS LOGGED OPEN HOLE

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES → API 18 0 180		NEUTRON INCREASES → API 150 0 1500 3000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.

LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-17 (EXTENSION LOG)

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services:

Permanent Datum GROUND LEVEL Elev. ____

Log Measured from TOP OF CASING 20 CM Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B. ____

CSG ____

G.L. ____

Run. No.	TWO
Date	18 MAR 80
First Reading	205.5 M
Last Reading	180.0
Footage Logged	25.5
Depth Reached	205.8
Depth Driller	207.0
Casing Roke	98.0
Casing Driller	
Fluid Type	WATER
Liquid Level	00
Min. Diam.	13.3 CM
Rm @	
Operating Time	40 MIN
Truck No.	36

Recorded By CARLSON

Witnessed By PLACHNER

546

EQUIPMENT DATA

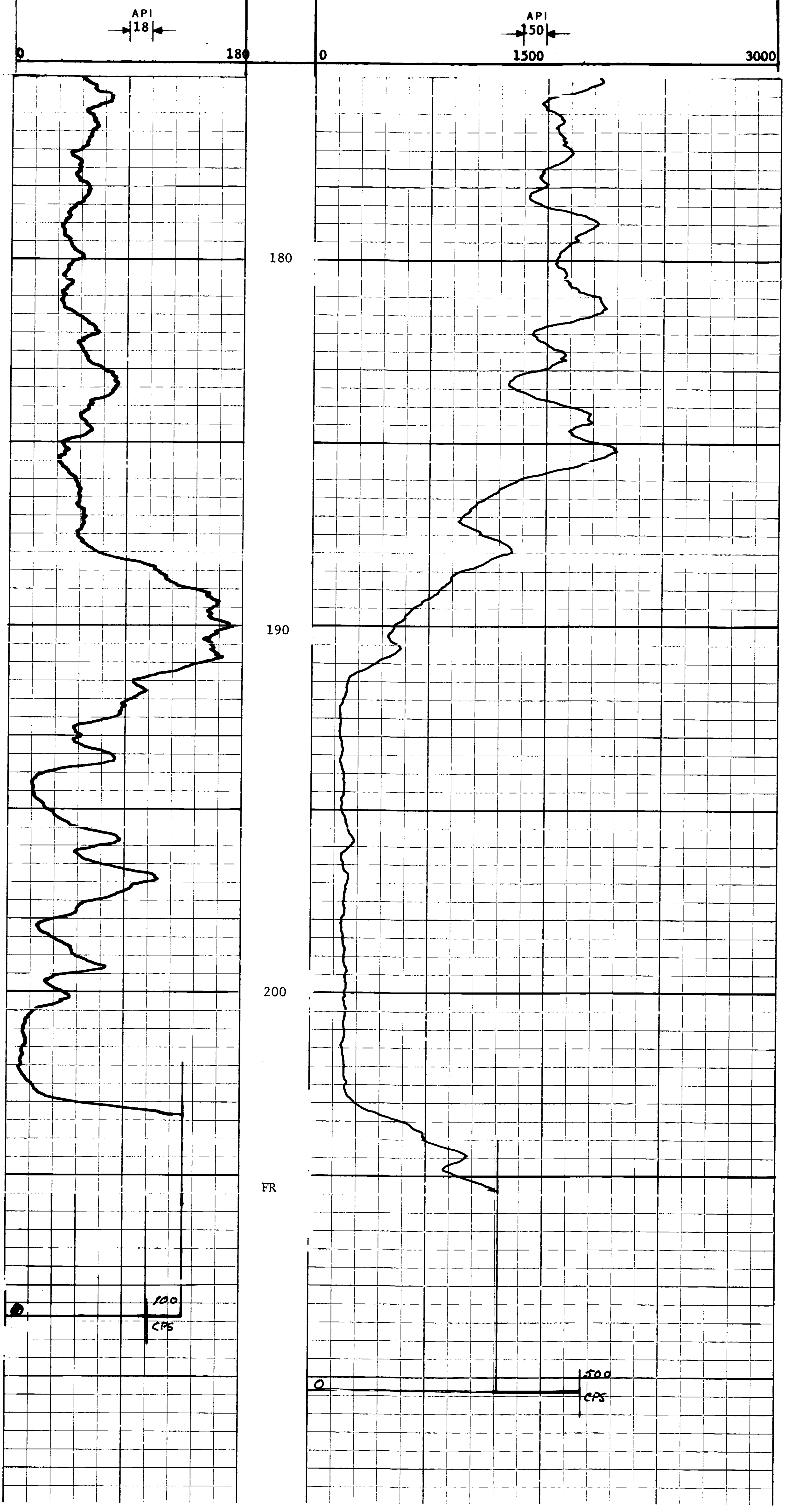
GAMMA RAY		NEUTRON	
RUN NO.	TWO	RUN NO.	TWO
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER		TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	
TYPE		DETECTOR MODEL NO.	
LENGTH		TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE		LENGTH	
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
TWO	180	205.50	4	3	100	0	18	3	500	0	150

REMARKS SECOND LOG REQUIRED AFTER HOLE WAS DRILLED DEEPER

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →



PR-Monkman 83(3)A

ROKE SIDEWALL DENSILOG
CALIPER
OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-17
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, FBL, DIR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	9 MAR 80		
First Reading	188.0 M		
Last Reading	00		
Footage Logged	188.0		
Depth Reached	188.9		
Depth Driller	189.1		
Casing Roke	98.0		
Casing Driller			
Fluid Type	WATER		
Liquid Level	00		
Min. Diam.	13.3 CM		
Operating Time	1 HR		
Truck No.	36	546	

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	188.0	10					0.2	5000	2.08	188.89
	00	188.70			CALIPER						

REMARKS DENS TOOL #128A
CAL TOOL #587

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

PL Monkman [illegible]

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W ___ M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-17 (EXTENSION LOG)
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	TWO		
Date	18 MAR 80		
First Reading	204.30 M		
Last Reading	180.00		
Footage Logged	24.30		
Depth Reached	205.20		
Depth Driller	207.40		
Casing Roke	98.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	00		
Min. Diam.	13.30 CM		
Operating Time	45 MIN		
Truck No.	36		
Recorded By	CARLSON	Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
TWO	180.00	204.30	10					0.2	5000	2.08 R	188.89
THREE	180.00	205.00			CALIPER						

REMARKS DENS TOOL #128A
CAL TOOL #587
SECOND LOG REQUIRED AFTER HOLE WAS DRILLED DEEPER

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG

FILE NO.

LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-18

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN,DEN,CAL,DIR

Permanent Datum GROUND LEVEL Elev.

Log Measured from TOP OF CASING 30 CM Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run No.	ONE	
Date	11 MAR 80	
First Reading	163.5 M	
Last Reading	23.5	
Footage Logged	140.0	
Depth Reached	164.6	
Depth Driller	164.7	
Casing Roke	23.5	
Casing Driller		
Fluid Type	WATER	
Liquid Level	8.0	
Min. Diam.	13.3 CM	
Rm @ °C	19.23 @ 20 (VERY OILY)	
Operating Time	45 MIN	
Truck No.	36	
Recorded By	CARLSON	Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 100 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV
OIL FROM HAMMER COATED SONDES AND CABLE WITH HEAVY GOO.

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-18
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FRI, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	11 MAR 80
First Reading	164.0 M
Last Reading	00
Footage Logged	164.0
Depth Reached	164.3
Depth Driller	164.7
Casing Roke	23.5
Casing Driller	
Fluid Type	WATER
Liquid Level	8.0
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	207 MM	LENGTH	150 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A006	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	8.0	4	3	100	0	18	3	1000	0	300
	8.0	164.0	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-18 (THROUGH DRILL RODS)
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W___M

Other Services:
DIR,
GRN, DEN, CAL, FBL.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF DRILL ROD 1.30M Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	11 MAR 80
First Reading	163.0 M
Last Reading	00
Footage Logged	163.0
Depth Reached	163.3
Depth Driller	164.7
Casing Roke	23.5
Casing Driller	
Fluid Type	WATER
Liquid Level	48.5
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	207 MM	LENGTH	150 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A006	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	46.0	4	3	100	0	12	3	1000	0	180
	46.0	163.0	4	3	100	0	12	3	500	0	90

REMARKS LOGGED THROUGH DRILL STEM - WATER WAS ADDED TO DRILL STEM

Pr - Monkman 80(3)A

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-18
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	11 MAR 80		
First Reading	163.5 M		
Last Reading	00		
Footage Logged	163.5		
Depth Reached	164.4		
Depth Driller	164.7		
Casing Roke	23.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	8.0		
Min. Diam.	13.3 CM		
Operating Time	1 HR		
Truck No.	36	546	

Recorded By CARLSON

Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	163.5	10					0.2	5000	2.08R	188.89

REMARKS
DENS TOOL #128A
CAL TOOL #587

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG

Re - Monkman [illegible]

FILE NO.
LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-19
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	13 MAR 80
First Reading	188.4 M
Last Reading	17.5
Footage Logged	170.9
Depth Reached	189.2
Depth Driller	
Casing Roke	17.5
Casing Driller	
Fluid Type	WATER
Liquid Level	5.0
Min. Diam.	13.3 CM
Rm @ °C	18.52 @ 20
Operating Time	45 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 5 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 — 5000		PRIMARY SCALE 0 — 1000 — 2000 6500 — 11500 — 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-19
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DEN, CAL, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	14 MAR 80
First Reading	188.9 M
Last Reading	00
Footage Logged	188.9
Depth Reached	189.1
Depth Driller	189.1
Casing Roke	17.5
Casing Driller	
Fluid Type	WATER
Liquid Level	2.0
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	207 MM	LENGTH	150 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	189.9	4	3	100	0	18	3	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 150
0 — 180		0 — 1500 — 3000

PR-Monkman 50(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-19
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL, DIR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	13 MAR 80		
First Reading	188.3 M		
Last Reading	00		
Footage Logged	188.3		
Depth Reached	189.2		
Depth Driller	189.2		
Casing Roke	17.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	5.0		
Min. Diam.	13.3 CM		
Operating Time	1 HR		
Truck No.	36		

546

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	188.3	10					0.2	5000	2.08R	188.89
	0	188.9			CALIPER						

REMARKS
DENS TOOL #128A
CAL TOOL #587

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY PETRO-CANADA (MINING DEPT)
LSD	WELL MH 80-2
SEC	LOCATION MONKMAN COAL PROJECT
TWP	FIELD DUKE MOUNTAIN
RGE	PROVINCE BRITISH COLUMBIA
W________M	Other Services: NONE

Permanent Datum GROUND LEVEL Elev. ______

Log Measured from RIG TABLE 1.2 M Above Perm. Datum

Well Depths Measured from RIG TABLE

K.B. ______

CSG ______

G.L. ______

Run. No.	ONE		
Date	17 FEB 80		
First Reading	286 M		
Last Reading	00		
Footage Logged	286		
Depth Reached	286.2		
Depth Driller	292		
Casing Roke	29		
Casing Driller	29		
Fluid Type	AIR/WATER		
Liquid Level	19.2		
Min. Diam.	13 CM		
Rm @			
Operating Time	1½ HRS		
Truck No.	SU 1		

546

Recorded By B. BANKS Witnessed By DE NYS

EQUIPMENT DATA

NEUTRON	
RUN NO.	ONE
LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.	RGRN 125
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	PROPORTIONAL
LENGTH	15 CM
SOURCE MODEL NO.	MRC-N-SS-W
SERIAL NO.	171
SPACING	43 CM
TYPE	AmBe
STRENGTH	3 CURIES

GAMMA RAY	
RUN NO.	ONE
TOOL MODEL NO.	RGRN 125
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	SCINTILLATION
LENGTH	10 CM
DISTANCE TO N. SOURCE	2.07 M

GENERAL	
HOIST TRUCK NO.	SU 1
INSTRUMENT TRUCK NO.	SU 1
TOOL SERIAL NO.	RGRN 125002

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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
ONE	00	286	4	3	100	0	12	3	1000	OL	120

REMARKS

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG

PR-Monkman 80-20A

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-20
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W M	
Other Services:	GRN, DEN, CAL, DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE			
Date	14 MAR 80			
First Reading	188.9 M			
Last Reading	9.5			
Footage Logged	179.4			
Depth Reached	189.8			
Depth Driller	189.9			
Casing Roke	9.5			
Casing Driller				
Fluid Type	WATER			
Liquid Level	8.5			
Min. Diam.	13.3 CM			
Rm @ °C	20.83 @ 20			
Operating Time	1 HR			
Truck No.	36			
Recorded By	CARLSON	Witnessed By	PLACHNER	

546

Remarks FBL # 5 CURRENT RANGE HIGH MUDFISH RESISTANCE 200 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 — 5000		PRIMARY SCALE 0 — 1000 — 2000 6500 — 11500 — 16500

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-20
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	14 MAR 80
First Reading	182.5 M
Last Reading	00
Footage Logged	182.5
Depth Reached	182.3
Depth Driller	189.9
Casing Roke	9.5
Casing Driller	
Fluid Type	WATER
Liquid Level	8.5
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	100 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	150 MM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	430 MM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

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.
ONE	00	182.5	4	3	100	0	12	3	500	0	90

REMARKS LOGGED THROUGH DRILL STEM
GRN WAS NOT LOGGED OPEN HOLE

Pr - Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-20
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W M	
Other Services:	GRN, FRL, DIR
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	14 MAR 80
First Reading	189.0 M
Last Reading	00
Footage Logged	189.0
Depth Reached	189.9
Depth Driller	189.9
Casing Roke	9.5
Casing Driller	
Fluid Type	WATER
Liquid Level	8.5
Min. Diam.	13.3 CM
Operating Time	1 3/4 HR
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	189.0	10					0.2	5000	2.08R	188.89
	00	189.0			CALIPER						

REMARKS DENS TOOL #128A
CAL TOOL #587

PR-Monkman 58(3)A

ROKE

FOCUSED BEAM LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-21
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE		
Date	14 MAR 80		
First Reading	91.0		
Last Reading	15.5		
Footage Logged	75.5		
Depth Reached	91.5		
Depth Driller	91.5		
Casing Roke	5.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	15.5		
Min. Diam.	15.24 CM		
Rm @ °C	25.32 @ 20		
Operating Time	45 MIN		
Truck No.	36	546	

Recorded By CARLSON
Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 100 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

[illegible]

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-21
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DEN,CAL,FBL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	14 MAR 80
First Reading	91.3 M
Last Reading	00
Footage Logged	91.3
Depth Reached	91.5
Depth Driller	91.5
Casing Roke	5.5
Casing Driller	
Fluid Type	WATER
Liquid Level	16.0
Min. Diam.	15.24 CM
Rm @	
Operating Time	45 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	15.0	4	3	100	0	18	3	1000	5L	350
	15.0	91.3	4	3	100	0	18	3	500	0	150

REMARKS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-21

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	14 MAR 80		
First Reading	90.6M		
Last Reading	00		
Footage Logged	90.6		
Depth Reached	91.5		
Depth Driller	91.5		
Casing Roke	5.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	16.0		
Min. Diam.	15.24 CM		
Operating Time	50 MIN	546	
Truck No.	36		

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	90.60	10					0.2	5000	2,08R	188.89
	00	91.60			CALIPER						

REMARKS
DENS TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC.
TWP
RGE
W. M.

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-22
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG.
G.L.

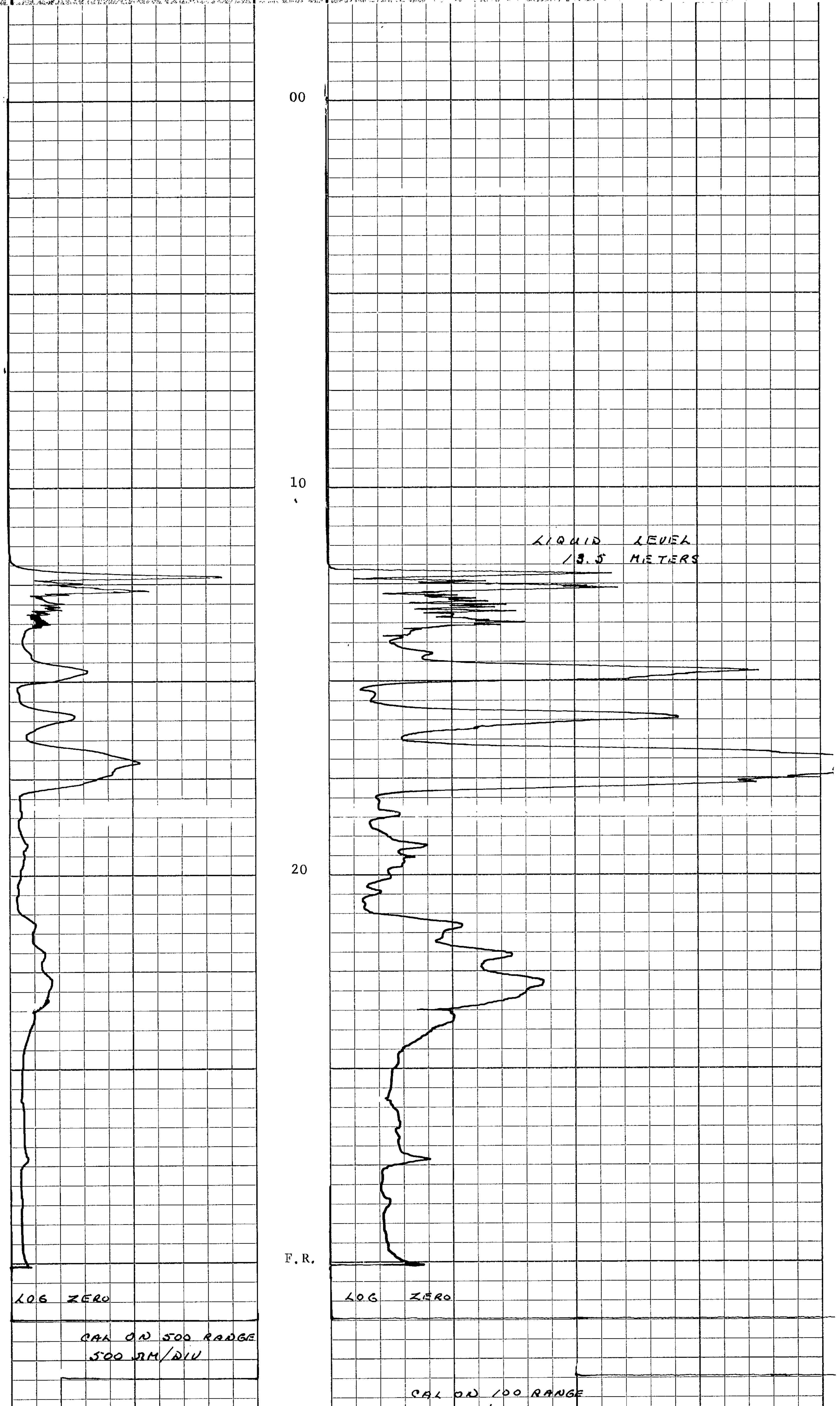
Run No.	ONE		
Date	14 MAR 80		
First Reading	30.10		
Last Reading	12.00		
Footage Logged	8.10		
Depth Reached	30.40		
Depth-Driller	31.90		
Casing-Roke	5.50		
Casing-Driller			
Fluid Type	WATER		
Liquid Level	13.50		
Min. Diam.	15.24 CM		
Rm @ °C	24.39 @ 20		
Operating Time	½ HR		
Truck No.	36		

546

Recorded By CARLSON Witnessed By PLACHNER

Remarks FBL # 7 CURRENT RANGE STANDARD MUDFISH RESISTANCE 100 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.

LSD

SEC

TWP

RGE

W. M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-22

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FRL, DIR

Permanent Datum GROUND LEVEL Elev.

Log Measured from TOP OF CASING 20 CM Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.

CSG

G.L.

Run. No.	ONE
Date	14 MAR 80
First Reading	31.0 M
Last Reading	00
Footage Logged	31.0
Depth Reached	31.3
Depth Driller	31.4
Casing Roke	5.5
Casing Driller	
Fluid Type	WATER
Liquid Level	12.0
Min. Diam.	15.24 CM
Rm @	
Operating Time	1/2 HR
Truck No.	36
Recorded By CARLSON	Witnessed By PLACHNER

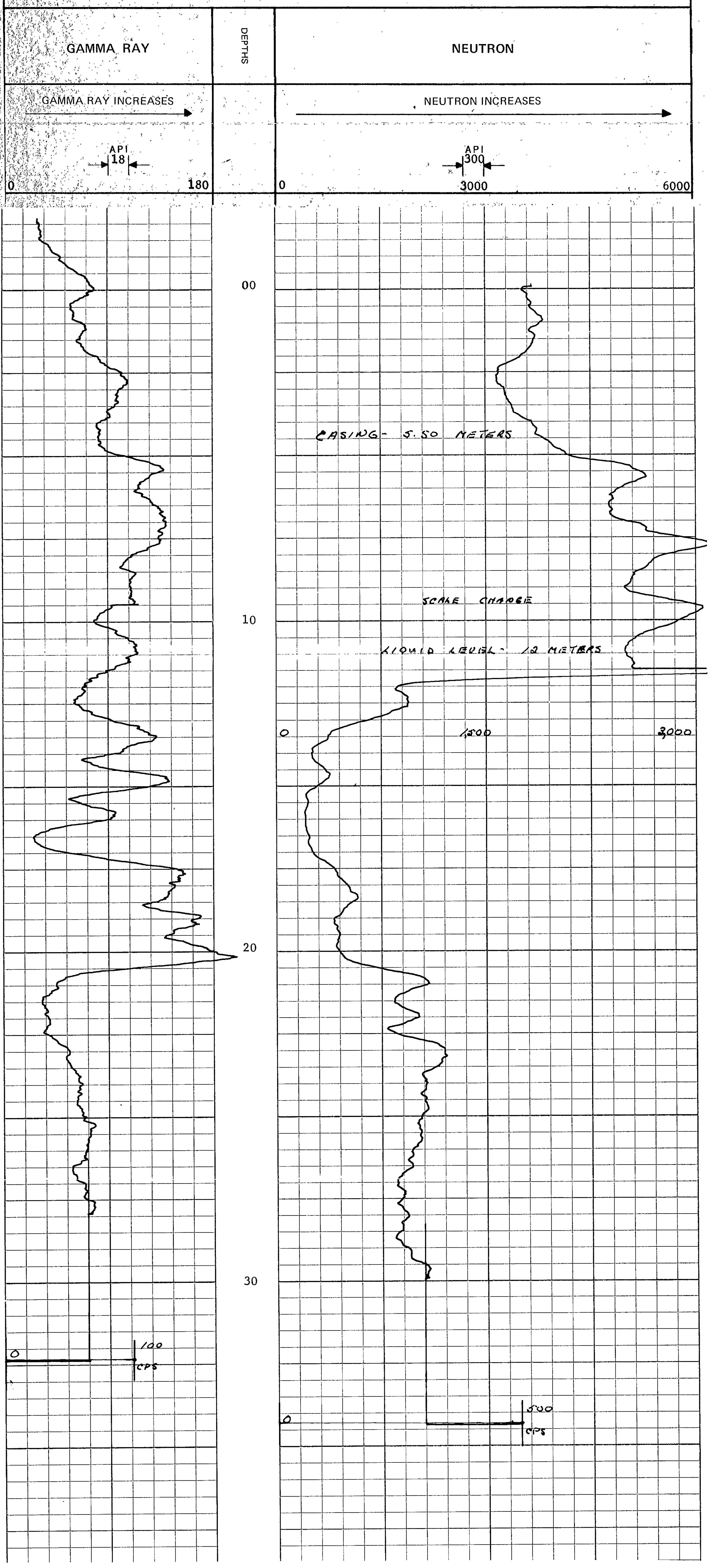
EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	11.5	4	3	100	0	18	3	1000	0	300
	11.5	31.0	4	3	100	0	18	3	500	0	150

REMARKS



PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-22
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, FBL, DTR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	14 MAR 80		
First Reading	29.7 M		
Last Reading	00		
Footage Logged	29.7		
Depth Reached	30.6		
Depth Driller	31.4		
Casing Roke	5.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	12.0		
Min. Diam.	15.24 CM		
Operating Time	½ HR		
Truck No.	36	546	

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	29.70	10					0.2	5000	2.08R	188.89
	00	30.70			CALIPER						

REMARKS DENS TOOL #128A
CAL TOOL #587

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR - Monkman 83(3)A

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-23
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN,DEN,CAL,DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING 60 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	16 MAR 80		
First Reading	182.10 M		
Last Reading	41.00		
Footage Logged	141.10		
Depth Reached	183.00		
Depth Driller	183.00		
Casing Roke	41.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	27.50		
Min. Diam.	13.3 CM		
Rm @ °C	21.05 @ 20		
Operating Time	45 MIN		
Truck No.	36		
Recorded By CARLSON		Witnessed By PLACHNER	

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 200 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-23
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: ✓
DEN,CAL,FBL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF DRILL STEM 1.2 M Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	15 MAR 80		
First Reading	127.3 M		
Last Reading	00		
Footage Logged	127.3		
Depth Reached	127.6		
Depth Driller	128.1		
Casing Roke	41.0		
Casing Driller			
Fluid Type	WATER		
Liquid Level	23.0		
Min. Diam.	13.3 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36		

546

Recorded By CARLSON
Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	21.0	4	3	100	0	12	3	1000	0	180
	21.0	127.30	4	3	100	0	12	3	500	0	90

REMARKS LOGGED THROUGH DRILL STEM

PR - Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-23
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN,CAL,FBL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 60CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	16 MAR 80
First Reading	182.5 M
Last Reading	00
Footage Logged	182.5
Depth Reached	182.8
Depth Driller	183.0
Casing Roke	41.0
Casing Driller	
Fluid Type	WATER
Liquid Level	27.5
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	26.50	4	3	100	0	18	3	1000	0	300
	26.50	182.50	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

PR-Monkman 80 (3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-23
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M
Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 60 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	16 MAR 80
First Reading	181.80 M
Last Reading	00
Footage Logged	181.80
Depth Reached	182.70
Depth Driller	183.00
Casing Roke	41.00
Casing Driller	
Fluid Type	WATER
Liquid Level	27.50
Min. Diam.	13.30 CM
Operating Time	1 HR 50 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	181.80	10					0.2	5000	2.08R	188.89
CAL	00	182.70									

REMARKS DENS TOOL #128A
CAL TOOL #587

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR - Monkman 80(3)5

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-24
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: DEN, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF DRILL ROD 1.2M Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	16 MAR 80		
First Reading	164.0 M		
Last Reading	00		
Footage Logged	164.0		
Depth Reached	164.3		
Depth Driller	166.23		
Casing Roke	34.0		
Casing Driller			
Fluid Type	WATER - DRILL STEM EMPTY		
Liquid Level			
Min. Diam.	15.24 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36		

Recorded By CARLSON
Witnessed By FLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	164.0	4	3	100	0	12	3	500	0	200

REMARKS LOGGED THROUGH DRILL STEM, NO WATER IN STEM

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman [illegible]

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-24
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	16 MAR 80
First Reading	165.10 M
Last Reading	00
Footage Logged	165.10
Depth Reached	165.40
Depth Driller	166.23
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	31.00
Min. Diam.	15.24 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	30.50	4	3	100	0	18	3	1000	0	300
	30.5	165.10	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

PR-Monkman 82(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-24
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W M	

Other Services: GRN, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	16 MAR 80
First Reading	165.00 M
Last Reading	00
Footage Logged	165.00
Depth Reached	165.90
Depth Driller	166.23
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	
Min. Diam.	15.24 CM
Operating Time	45 MIN
Truck No.	36

546

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	165.00	10					0.2	5000	2.08R	188.89

REMARKS DENS TOOL #128A

EXPANDED SCALE
40 TO 1 RATIO

PR-Monkman 52(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-26
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN,CAL,FBL,DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF CASING 40cm Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	18 MAR 80		
First Reading	145.70 M		
Last Reading	00		
Footage Logged	145.70		
Depth Reached	146.00		
Depth Driller	147.50		
Casing Roke	4.50		
Casing Driller			
Fluid Type	WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36	546	

Recorded By CARLSON
Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	145.70	4	3	100	0	12	3	500	0	200

REMARKS LOGGED THROUGH DRILL RODS - NO WATER INSIDE RODS

Pr - Monkman 80(3)A

PR-Monkman 80/3A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-28
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	20 MAR 80
First Reading	188.10 M
Last Reading	82.50
Footage Logged	105.60
Depth Reached	189.00
Depth Driller	189.30
Casing Roke	82.50
Casing Driller	
Fluid Type	WATER
Liquid Level	11.00
Min. Diam.	13.3 CM
Rm @ °C	17.24 @ 20
Operating Time	40 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 10 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 92(3)A

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W	M
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-28
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	DEN,CAL,FBL,DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	20 MAR 80
First Reading	189.00 M
Last Reading	00
Footage Logged	189.00
Depth Reached	189.30
Depth Driller	189.30
Casing Roke	82.50
Casing Driller	
Fluid Type	WATER
Liquid Level	11.00
Min. Diam.	13.30 CM
Rm @	
Operating Time	1 HR
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.	.	DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	9.0	4	3	100	0	18	3	1000	7L	300
	9.0	189.0	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

PR-Monkman [illegible]

FILE NO.
LSD
SEC.
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-28
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	20 MAR 80
First Reading	188.10 M
Last Reading	00
Footage Logged	188.10
Depth Reached	189.00
Depth Driller	189.30
Casing Roke	82.50
Casing Driller	
Fluid Type	WATER
Liquid Level	11.00
Min. Diam.	13.30 CM
Operating Time	1 HR.
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	188.10	10					0.2	5000	2.08R	188.89
CAL	00	189.00									

REMARKS DENS TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-3

LOCATION MONKMAN COAL PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DENS, CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	21 FEB 80		
First Reading	236.5 M		
Last Reading	8.75		
Footage Logged	227.75		
Depth Reached	237.4		
Depth Driller	242		
Casing Roke	8.75		
Casing Driller	8.75		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13 CM		
Rm @ °C	20.75 @ 42°F		
Operating Time	1 HR		
Truck No.	SU 1		

546

Recorded By B. BANKS Witnessed By DE NYS

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 50 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)

PRIMARY SCALE

0 1000 2000
6500 11500 16500

Depths

RESISTIVITY (OHM-METERS)

SECONDARY SCALE

0 5000

P2-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-3
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DENS, CAL, FRL, DIE

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	21 FEB 80
First Reading	238 M
Last Reading	00
Footage Logged	238
Depth Reached	238.2
Depth Driller	242
Casing Roke	8.75
Casing Driller	8.75
Fluid Type	AIR/WATER
Liquid Level	6.5
Min. Diam.	13 CM
Rm @ °F	20.75 @ 42
Operating Time	1½ HRS
Truck No	SU 1

Recorded By B. BANKS
Witnessed By DE NYS

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	5	4	3	100	0	18	3	1000	0	300
	5	238	4	3	100	0	18	3	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 300
0 180		0 3000 6000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

CALIPER

[illegible] Monkman 80(3)[illegible]

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-3
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: FBL, GRN, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE	
Date	21 FEB 80	
First Reading	230 M	
Last Reading	00	
Footage Logged	230	
Depth Reached	231	
Depth Driller	242	
Casing Roke	8.75	
Casing Driller	8.75	
Fluid Type	AIR/WATER	
Liquid Level		
Min. Diam.	13 CM	
Operating Time	2¼ HRS	
Truck No.	SU 1	
Recorded By B. BANKS	Witnessed By DE NYS	

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	230	5					0.2	5000	2.08R	188.89

REMARKS DENS #128A
CAL #879

DEPTHS

CALIPER
DIAMETER – CENTIMETERS

BULK DENSITY
(GRAMS/CC)

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W ____ M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-31
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	NONE
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	23 MAR 80		
First Reading	67.10 M		
Last Reading	00		
Footage Logged	67.10		
Depth Reached	67.40		
Depth Driller	67.50		
Casing Roke	20.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	00		
Min. Diam.	13.30 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36	546	

Recorded By CARLSON   Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 CM	LENGTH	15 CM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
HOIST TRUCK NO.	36	SERIAL NO.	256
INSTRUMENT TRUCK NO.		SPACING	43 CM
TOOL SERIAL NO.	125A001	TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA

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.
ONE	00	67.10	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE. DRILL BROKE DOWN AND DID NOT FINISH THIS HOLE.

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR - Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-37
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DENS

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	31 MAR 80
First Reading	90.20 M
Last Reading	00
Footage Logged	90.20
Depth Reached	90.50
Depth Driller	90.75
Casing Roke	7.00
Casing Driller	
Fluid Type	WATER
Liquid Level	10.5
Min. Diam.	13.3 CM
Rm @	
Operating Time	40 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	9.5	4	3	100	0	18	3	1000	7L	300
	9.5	90.20	4	3	100	0	18	3	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 800 2100 5100 8100

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-37
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	31 MAR 80		
First Reading	89.50 M		
Last Reading	00		
Footage Logged	89.50		
Depth Reached	90.40		
Depth Driller	90.75		
Casing Roke	7.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	10.50		
Min. Diam.	13.30 CM		
Operating Time	½ HR		
Truck No.	36		

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	89.50	10					0.2	5000	2.08R	188.89

REMARKS DENS TOOL #128A

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-38
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	2 APR 80
First Reading	178.40 M
Last Reading	12.00
Footage Logged	166.40
Depth Reached	179.30
Depth Driller	179.80
Casing Roke	8.50
Casing Driller	
Fluid Type	WATER
Liquid Level	12.00
Min. Diam.	13.3 CM
Rm @ °C	19.42 @ 20
Operating Time	45 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 5 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE
0 — 5000		0 — 1000 — 2000
		6500 — 11500 — 16500

FR - Monkman BC(3)N

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-38
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FBL, DIR

Permanent Datum GROUND LEVEL Elev. ________
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ________
CSG ________
G.L. ________

Run. No.	ONE		
Date	2 APR 80		
First Reading	179.5 M		
Last Reading	00		
Footage Logged	179.5		
Depth Reached	179.8		
Depth Driller	179.95		
Casing Roke	8.5		
Casing Driller			
Fluid Type	WATER		
Liquid Level	18.0		
Min. Diam.	13.3 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36		

546

Recorded By CARLSON Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	17.0	4	3	100	0	18	3	1000	7L	300
	17.0	179.5	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

Pr - Monkman 80(3)A

PR - Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MH 80-38
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	2 APR 80		
First Reading	178.40 M		
Last Reading	00		
Footage Logged	178.40		
Depth Reached	179.30		
Depth Driller	179.80		
Casing Roke	8.50		
Casing Driller			
Fluid Type	WATER		
Liquid Level	18.00		
Min. Diam.	13.30 CM		
Operating Time	1 HR	546	
Truck No.	36		

Recorded By CARLSON
Witnessed By PLACHNER

SIDEWALL DENSILOG			
CPS/DIV	ZERO DIV.L OR R	SENS SETTINGS	T.C. SEC.
188.89	2.08R	5000	0.2

GAMMA RAY			
API G.R. UNITS PER LOG DIV.	ZERO DIV.L OR R	SENS SETTINGS	T.C. SEC.

GENERAL			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED M/MIN
ONE	00	178.40	10
CAL	00	179.50	

REMARKS
DEN TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.

LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-4
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (OPEN HOLE)
DENS,CAL,FBL,DIR

Permanent Datum GROUND LEVEL Elev.____ K.B.____
Log Measured from GROUND LEVEL ____ Above Perm. Datum CSG____
Well Depths Measured from GROUND LEVEL G.L.____

Run. No.	ONE
Date	22 FEB 80
First Reading	150 M
Last Reading	00
Footage Logged	150
Depth Reached	150.2
Depth Driller	155.2
Casing Roke	8.5
Casing Driller	8.5
Fluid Type	AIR/WATER
Liquid Level	39
Min. Diam.	13.3 CM
Rm @ °F	18.6 @ 61
Operating Time	1¼ HRS
Truck No.	SU 1

Recorded By B. BANKS Witnessed By DE NYS

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	36	4	3	100	0	18	3	1000	0	240
	36	150	4	3	100	0	18	3	500	0	120

REMARKS LOGGED THROUGH DRILL RODS

ROKE

FOCUSED BEAM LOG 20 CM

R-Monkman 8083A

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-40
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DEN, CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	3 APR 80
First Reading	180.30 M
Last Reading	16.00
Footage Logged	164.30
Depth Reached	181.20
Depth Driller	183.00
Casing Roke	6.00
Casing Driller	
Fluid Type	WATER
Liquid Level	16.00
Min. Diam.	13.30 CM
Rm @ °C	36.36 @ 20
Operating Time	45 MIN
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 500 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 53(3)A

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-40
LOCATION MONKMAN PASS PROJECT
FIELD DIKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	3 APR 80
First Reading	181.40 M
Last Reading	00
Footage Logged	181.40
Depth Reached	181.70
Depth Driller	183.00
Casing Roke	6.00
Casing Driller	
Fluid Type	WATER
Liquid Level	17.00
Min. Diam.	13.30 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	16.0	4	3	100	0	18	3	1000	7L	300
	16.0	181.40	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 300
0 — 180		2100 — 5100 — 8100

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

PR-Monkman 80(3)A

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-40
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE			
Date	3 APR 80			
First Reading	180.40 M			
Last Reading	00			
Footage Logged	180.40			
Depth Reached	181.30			
Depth Driller	183.00			
Casing Roke	6.00			
Casing Driller				
Fluid Type	WATER			
Liquid Level	17.00			
Min. Diam.	13.3 CM			
Operating Time	1 HR 50 MIN			
Truck No.	36			

Recorded By CARLSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	180.40	4					0.2	5000	2.08 R	188.89
CAL	00	181.30									

REMARKS DENS TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-41
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: DEN,CAL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 40 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	4 APR 80
First Reading	145.30 M
Last Reading	00
Footage Logged	145.30
Depth Reached	145.80
Depth Driller	145.80
Casing Roke	10.50
Casing Driller	
Fluid Type	WATER
Liquid Level	22.00
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HR
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	21.50	4	3	100	0	18	3	1000	7L	300
	21.50	145.30	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-41
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 40 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE		
Date	4 APR 80		
First Reading	144.50 M		
Last Reading	00		
Footage Logged	144.50		
Depth Reached	145.40		
Depth Driller	145.80		
Casing Roke	10.50		
Casing Driller			
Fluid Type	WATER		
Liquid Level	22.00		
Min. Diam.	13.30 CM		
Operating Time	1 HR		
Truck No.	36		

546

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				SIDEWALL DENSILOG					GAMMA RAY			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED M/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/DIV	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.
ONE	00	144.50	10	0.2	5000	2.08R	188.89				
CAL	00	145.40									

REMARKS
DEN TOOL #128A
CAL TOOL #587

CALIPER
DIAMETER – CENTIMETERS

DEPTHS

BULK DENSITY
(GRAMS/CC)

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-43
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from TOP OF CASING 50 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE
Date	5 APR 80
First Reading	127.40 M
Last Reading	26.00
Footage Logged	101.40
Depth Reached	128.30
Depth Driller	133.00
Casing Roke	26.00
Casing Driller	
Fluid Type	WATER
Liquid Level	26.00
Min. Diam.	13.30 CM
Rm @ °C	7.84 @ 20
Operating Time	45 MIN
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 5 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-43
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN, CAL, FBL, DIR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 50 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	5 APR 80		
First Reading	132.60 M		
Last Reading	00		
Footage Logged	132.60		
Depth Reached	132.90		
Depth Driller	133.00		
Casing Roke	26.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	26.50		
Min. Diam.	13.30 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36	546	

Recorded By CARLSON
Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
HOIST TRUCK NO.	36	SERIAL NO.	256
INSTRUMENT TRUCK NO.		SPACING	43 CM
TOOL SERIAL NO.	125A001	TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	26.0	4	3	100	0	18	3	1000	7L	300
	26.0	132.60	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE
OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-43
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: GRN, FBL, DIR

LSD
SEC
TWP
RGE
W M

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 50 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	5 APR 80
First Reading	127.80 M
Last Reading	00
Footage Logged	127.80
Depth Reached	128.70
Depth Driller	133.00
Casing Roke	26.00
Casing Driller	
Fluid Type	WATER
Liquid Level	26.50
Min. Diam.	13.30 CM
Operating Time	1 HR
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	127.80	10					0.2	5000	2.08 R	188.89
CAL	00	128.40									

REMARKS DENS TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-5
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN(THRU RODS)DIR
GRN, DEN, CAL, FBL

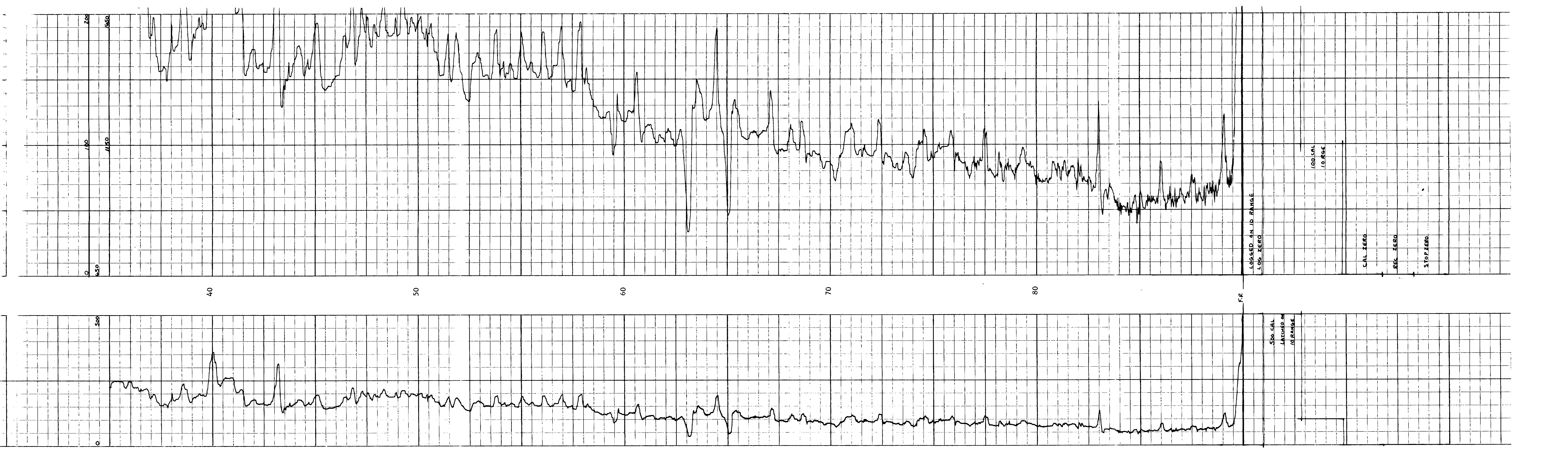
Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	24 FEB 80		
First Reading	151 M		
Last Reading	15.5		
Footage Logged	135.5		
Depth Reached	151.9		
Depth Driller	152.4		
Casing Roke			
Casing Driller	3		
Fluid Type	AIR/WATER		
Liquid Level	15.5		
Min. Diam.	13.3 CM		
Rm @ °C	22.7 @ 43°F		
Operating Time	1 HR		
Truck No.	SU 1	546	

Recorded By B. BANKS
Witnessed By PLACHNER

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 800 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500



Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-5
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (OPEN HOLE)
FBL, DIR, DENS, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	23 FEB 80
First Reading	121.0 M
Last Reading	00
Footage Logged	121
Depth Reached	121.2
Depth Driller	127
Casing Roke	3.5
Casing Driller	3
Fluid Type	AIR/WATER
Liquid Level	16
Min. Diam.	13.3 CM
Rm @ °F	22.7 @ 43
Operating Time	1¼ HRS
Truck No.	SU 1
Recorded By	B. BANKS
Witnessed By	PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	14.5	4	3	100	0	12	3	1000	0	240
	14.5	121	4	3	100	0	12	3	500	0	120

REMARKS LOGGED THROUGH DRILL RODS

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

CAL PER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-5
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W ______ M

Other Services:
GRN (THRU RODS) DIR
GRN, DENS, CAL, FRL

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	24 FEB 80
First Reading	151 M
Last Reading	00
Footage Logged	151
Depth Reached	151.9
Depth Driller	152.4
Casing Roke	3
Casing Driller	3
Fluid Type	AIR/WATER
Liquid Level	
Min. Diam.	13.3 CM
Operating Time	1½ HRS
Truck No.	SU 1

Recorded By B. BANKS Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	151	5					0.2	5000	2.08R	188.89

REMARKS DENS #128A
CAL #879

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-6
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN. DENS. CAL

Permanent Datum GROUND LEVEL Elev. ________
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ________
CSG ________
G.L. ________

Run. No.	ONE		
Date	25 FEB 80		
First Reading	114 M		
Last Reading	51		
Footage Logged	63		
Depth Reached	114.9		
Depth Driller	115.2		
Casing Roke	51		
Casing Driller	51		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Rm @ °C	23.15 @ 50°F		
Operating Time	½ HR	546	
Truck No.	SU 1		

Recorded By B. BANKS
Witnessed By PLACHNER

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 25 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)5

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-6
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: FBL, DENS, CAL
Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	24 FEB 80		
First Reading	115.0 M		
Last Reading	00		
Footage Logged	115		
Depth Reached	115.2		
Depth Driller	115.2		
Casing Roke	51		
Casing Driller	51		
Fluid Type	AIR/WATER		
Liquid Level	7.4		
Min. Diam.	13.3 CM		
Rm @ °F	23.15 @ 50		
Operating Time	1 HR		
Truck No.	SU 1		

Recorded By B. BANKS
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	115	4	3	100	0	18	3	500	0	150

REMARKS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W _______ M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-6

LOCATION MONKMAN COAL PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: FBL, GRN, DIR

Permanent Datum GROUND LEVEL Elev. ____

Log Measured from GROUND LEVEL ____ Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE		
Date	25 FEB 80		
First Reading	114 M		
Last Reading	00		
Footage Logged	114		
Depth Reached	114.9		
Depth Driller	115.2		
Casing Roke	51		
Casing Driller	51		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Operating Time	1 HR		
Truck No.	SU 1		

546

Recorded By B. BANKS Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	50	5					0.2	5000	1.72 R	87.34
	50	114	5					0.2	5000	2.08 R	188.89

REMARKS DENS #128A
CAL #879

DR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W. M

COMPANY PETRO-CANADA
WELL MH 80-7
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN. DENS

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

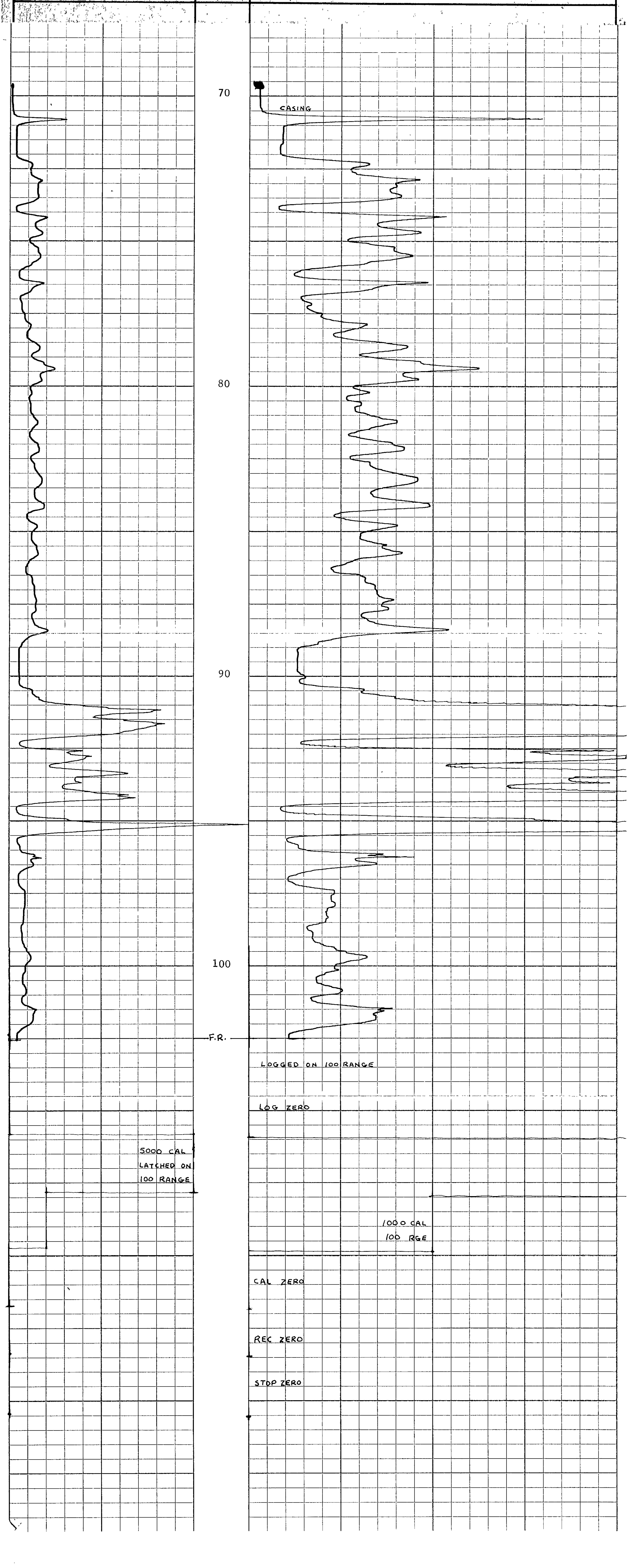
K.B.
CSG
G.L.

Run. No.	ONE		
Date	25 FEB 80		
First Reading	102.5 M		
Last Reading	70.5		
Footage Logged	32.0		
Depth Reached	103.4		
Depth Driller	103.6		
Casing Roke	70.5		
Casing Driller	70		
Fluid Type	WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Rm @ °C	30.3 @ 50°F		
Operating Time	¾ HR		
Truck No.	SU 1		
Recorded By B. BANKS	Witnessed By PLACHNER		

546

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 600 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500



PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-7
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:

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

K.B.
CSG
G.L.

Run No.	ONE
Date	26 FEB 80
First Reading	103.5 M
Last Reading	00
Footage Logged	103.5
Depth Reached	103.6
Depth Driller	103.6
Casing Roke	70.5
Casing Driller	70
Fluid Type	AIR/WATER
Liquid Level	1
Min. Diam.	13.3 CM
Rm @ °F	30.3 @ 50
Operating Time	1 HR
Truck No.	SU 1

Recorded By B. BANKS
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	171
HOIST TRUCK NO.	SU 1	SPACING	43 CM
INSTRUMENT TRUCK NO.	SU 1	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	103.5	4	3	100	0	18	3	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 150 0 1500 3000

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC.
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-7
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL, GRN

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

K.B.
CSG
G.L.

Run No.	ONE		
Date	25 FEB 80		
First Reading	102.5 M		
Last Reading	71.5		
Footage Logged	31.0		
Depth Reached	103.4		
Depth Driller	103.6		
Casing Roke			
Casing Driller	70		
Fluid Type	WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Operating Time	9 HRS		
Truck No.	SU 1		

546

Recorded By B. BANKS Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV.
ONE	71.5	102.5	5					0.2	5000	2.08R	188.89

REMARKS DENS #128A
CAL #879
TOOL BECAME STUCK IN DRILLHOLE AT 71.5M

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-9
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN (THRU RODS) GRN, DIR, DENS, CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	29 FEB 80
First Reading	154 M
Last Reading	11.8
Footage Logged	142.2
Depth Reached	154.9
Depth Driller	155.2
Casing Roke	11.8
Casing Driller	
Fluid Type	WATER
Liquid Level	FULL
Min. Diam.	13.3 CM
Rm @ °C	22.9 @ 43°F
Operating Time	½ HR
Truck No.	SU 1

Recorded By B. BANKS
Witnessed By PLACHNER

546

Remarks FBL # 7 CURRENT RANGE HI MUDFISH RESISTANCE 150 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE
		0 1000 2000
0 5000		6500 11500 16500

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-9
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (OPEN HOLE)
FBL, DIR, DENS, CAL

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	29 FEB 80		
First Reading	148.5 M		
Last Reading	00		
Footage Logged	148.5		
Depth Reached	148.7		
Depth Driller	155.2		
Casing Roke	11.8		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	17.4		
Min. Diam.	13.3 CM		
Rm @			
Operating Time	1½ HRS		
Truck No.	SU 1		

546

Recorded By B. BANKS Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY	
RUN NO.	ONE
TOOL MODEL NO.	RGRN 125
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	SCINTILLATION
LENGTH	10 CM
DISTANCE TO N. SOURCE	2.07 M
GENERAL	
HOIST TRUCK NO.	SU 1
INSTRUMENT TRUCK NO.	SU 1
TOOL SERIAL NO.	RGRN 125002

NEUTRON	
RUN NO.	ONE
LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.	RGRN 125
DIAMETER	32 MM
DETECTOR MODEL NO.	
TYPE	PROPORTIONAL
LENGTH	15 CM
SOURCE MODEL NO.	MRC-N-SS-W
SERIAL NO.	171
SPACING	43 CM
TYPE	AmBe
STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	16	4	3	100	0	12	3	1000	0	240
	16	148.5	4	3	100	0	12	3	500	0	120

REMARKS LOGGED THROUGH DRILL RODS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-9
LOCATION MONKMAN COAL PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN (THRU RODS)
GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	29 FEB 80		
First Reading	154 M		
Last Reading	00		
Footage Logged	154		
Depth Reached	155		
Depth Driller	155.2		
Casing Roke	11.8		
Casing Driller			
Fluid Type	WATER		
Liquid Level	FULL		
Min. Diam.	13.3 CM		
Operating Time	1½ HRS		
Truck No.	SU 1	546	

Recorded By B. BANKS
Witnessed By PLACHNER

GENERAL				SIDEWALL DENSILOG				GAMMA RAY			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED M/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/DIV	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.
ONE	00	154	5	0.2	5000	2.08R	188.89				

REMARKS
DENS #128A
CAL #879

CALIPER
DIAMETER – CENTIMETERS

BULK DENSITY
(GRAMS/CC)

DEPTHS

PR-Monkman 50C3JA

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT)

WELL MH 80-29

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GAM.DEN.CAL.DIR

Permanent Datum GROUND LEVEL Elev.

Log Measured from TOP OF CASING 30 CM Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE		
Date	21 MAR 80		
First Reading	96.70		
Last Reading	19.00		
Footage Logged	77.70		
Depth Reached	97.60		
Depth Driller	98.00		
Casing Roke	19.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	8.50		
Min. Diam.	13.30 CM		
Rm @ °C	19.23 @ 20		
Operating Time	45 MIN		
Truck No.	36		

546

Recorded By CARLSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 200 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)

PRIMARY SCALE
0 1000 2000
6500 11500 16500

Depths

RESISTIVITY (OHM-METERS)

SECONDARY SCALE
0 5000

PR - Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-29
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: DENS, CAL, FRL, DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ____
CSG ____
G.L. ____

Run. No.	ONE		
Date	21 MAR 80		
First Reading	97.80 M		
Last Reading	00		
Footage Logged	97.80		
Depth Reached	97.90		
Depth Driller	98.00		
Casing Roke	19.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	8.50		
Min. Diam.	13.30 CM		
Rm @			
Operating Time	1 HR		
Truck No.	36		

Recorded By CARLSON
Witnessed By PLACHNER

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	97.80	4	3	100	0	18	3	500	0	150

REMARKS LOGGED OPEN HOLE

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MH 80-29
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev. ___
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

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

Run. No.	ONE
Date	21 MAR 80
First Reading	96.60 M
Last Reading	00
Footage Logged	96.60
Depth Reached	97.50
Depth Driller	98.00
Casing Roke	19.00
Casing Driller	
Fluid Type	WATER
Liquid Level	8.50
Min. Diam.	13.30 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	96.60	10					0.2	5000	2.08R	188.89
CAL	00	97.40									

REMARKS DEN TOOL #128A
CAL TOOL #587

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-46
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DIR

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

K.B.
CSG
G.L.

Run. No.	ONE (THRU RODS)	TWO (OPEN HOLE)	
Date	3 JUNE 1980	3 JUNE 1980	
First Reading	127.5 M	129 M	
Last Reading	0	0	
Footage Logged	127.5	129	
Depth Reached	128.0	129.5	
Depth Driller	129.5	129.5	
Casing Roke		11.2	
Casing Driller	11.2	11.2	
Fluid Type	AIR/WATER	AIR/WATER	
Liquid Level	33.2	33.25	
Min. Diam.	13.3 CM	13.3 CM	
Rm @			
Operating Time	1.25 HOURS	1 HOUR	
Truck No.	36	36	

Recorded By KALUGIN
Witnessed By FLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	32.35	4	3	100	0	18	3	1000	4 L	300 API
ONE	32.35	127.5	4	3	100	0	18	3	500	0	150 API
TWO	0	32.25	4	3	100	0	18	3	1000	8 L	300 API
TWO	32.25	129	4	3	100	0	18	3	500	0	150 API

REMARKS: RUN #1 LOGGED THROUGH ROTARY DRILL RODS; RUN #2 - OPEN HOLE

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-48
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DENS-CAL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	8 JUNE 1980		
First Reading	168 M		
Last Reading	24.5		
Footage Logged	143.5		
Depth Reached	168.6		
Depth Driller	173.2		
Casing Roke			
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	24.5		
Min. Diam.	13 CM		
Rm @ °C	30.3 @ 25°		
Operating Time	1.5 HOURS	546	
Truck No.	36		

Recorded By FERGUSON

Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 110 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY
(OHM-METERS)

PRIMARY SCALE
0 1000 2000
6500 11500 16500

Depths

RESISTIVITY
(OHM-METERS)

SECONDARY SCALE
0 5000

Pr - Monkman 80(3)A

Pr-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-48
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS-CAL,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE (THRU RODS)	TWO (OPEN HOLE)
Date	8 JUNE 1980	8 JUNE 1980
First Reading	170 M	168 M
Last Reading	128	0
Footage Logged	42	168
Depth Reached	170.8	168.3
Depth Driller	173.2	173.2
Casing Roke		24.5
Casing Driller	24.4	24.4
Fluid Type	AIR/WATER	AIR/WATER
Liquid Level		24.5 M
Min. Diam.	13 CM	13 CM
Rm @		
Operating Time	.5 HOUR	2 HOURS
Truck No.	36	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	128	170	4	3	100	0	18	3	500	1 L	150 API
TWO	0	24	4	3	100	0	18	3	1000	8 L	300 API
TWO	24	168	4	3	100	0	18	3	500	0	150 API

REMARKS RUN #1 LOGGED THROUGH ROTARY DRILL RODS. RUN #2: OPEN HOLE

Pr - Monkman 80(3)A

PR- Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPERTMENT)

WELL MH-80-48

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: DENS,FBL,DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	10 JUNE 1980		
First Reading	160.0 M		
Last Reading	0		
Footage Logged	160.0		
Depth Reached	161		
Depth Driller	173.2		
Casing Roke	24.3		
Casing Driller	24.4		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13 CM		
Operating Time	2 HOURS		546
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

GENERAL				SIDEWALL DENSILOG				GAMMA RAY			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED M/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.
ONE	0	22.3	8	.5	5K	2.37 R	96.96				
	22.3	160.0	8	.5	5K	2.09 R	207.96				
EXP	21	110	6	.5	5K	2.09 R	207.96				

REMARKS DENSITY TOOL #554AS

CALIPER
DIAMETER – CM

DEPTHS

BULK DENSITY
(GRAMS/CC)

PP-Monkman 80(3)A

ROKE FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH-80-49
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN,DENS-CAL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	9 JUNE 1980		
First Reading	104.5 M		
Last Reading	8.5		
Footage Logged	96.0		
Depth Reached	105.7		
Depth Driller	106.7		
Casing Roke	22.2		
Casing Driller	22.6		
Fluid Type	AIR/WATER		
Liquid Level	8.5		
Min. Diam.	13.3 CM		
Rm @ °C	28.6 @ 25°		
Operating Time	.75 HOURS		
Truck No.	36		

546

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 400 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH-80-49
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	FBL,DENS-CAL,DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	8 JUNE 1980
First Reading	105.0 M
Last Reading	0
Footage Logged	105.0
Depth Reached	105.7
Depth Driller	106.7
Casing Roke	22.2
Casing Driller	22.6
Fluid Type	AIR/WATER
Liquid Level	8.25 CM
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	8	4	3	100	0	18	3	1 K	8 L	300 API
ONE	8	105	4	3	100	0	18	3	500	0	150 API

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 300
0 — 180		2400 — 5400 — 8400

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC.
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-49
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
FBL,GRN,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	8 JUNE 1980		
First Reading	105 M		
Last Reading	0		
Footage Logged	105		
Depth Reached	105.7		
Depth Driller	106.7		
Casing Roke	22.2		
Casing Driller	22.6		
Fluid Type	AIR/WATER		
Liquid Level	8.25		
Min. Diam.	13.3 CM		
Operating Time	1 HOUR		
Truck No.	36		546

Recorded By FERGUSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	22.5	8					.5	1 K	2.37 R	96.96
ONE	22.5	105	8					.5	5 K	2.09 R	207.96
EXP	66	71	6					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

CALIPER
DIAMETER – CM

10 15 20 25 30

DEPTHS

BULK DENSITY
(GRAMS/CC)

2.80 2.70 2.60 2.50 2.40 2.30 2.20 2.10 2.00 1.90 1.80 1.70 1.60 1.50 1.40 1.30 1.20 1.10 1.00

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-50
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M

Other Services: GRN, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	10 JUNE 1980
First Reading	229.0 M
Last Reading	15.8
Footage Logged	213.2
Depth Reached	230.3
Depth Driller	231.6
Casing Roke	27.3
Casing Driller	28
Fluid Type	AIR/WATER
Liquid Level	15.6
Min. Diam.	13.3 CM
Rm @ °C	28.6 @ 25°
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By FLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 350 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE
		0 1000 2000
0 5000		6500 11500 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-50
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
FBL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	10 JUNE 1980
First Reading	230 M
Last Reading	0
Footage Logged	230
Depth Reached	231.3
Depth Driller	231.6
Casing Roke	27.3
Casing Driller	28
Fluid Type	AIR/WATER
Liquid Level	26.7
Min. Diam.	13.3 CM
Rm @	
Operating Time	2 HOURS
Truck No.	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	33 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	25.4	4	3	100	0	18	3	1 K	6 L	300 API
ONE	25.4	230	4	3	100	0	18	3	500	0	150 API

REMARKS DENSITY AND CALIPER TOOLS NOT RUN BECAUSE WELD IN CASING HAD CRACKED AND CASING HAD SHIFTED

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-51
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
FBL, DENS-CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE (THRU RODS)	TWO (OPEN HOLE)
Date	13 JUNE 1980	13 JUNE 1980
First Reading	273.5 M	187.5 M
Last Reading	0	0
Footage Logged	273.5	187.5
Depth Reached	273.8	189.0
Depth Driller	274	274
Casing Roke		
Casing Driller	24.4	24.4
Fluid Type	AIR/WATER	AIR/WATER
Liquid Level		
Min. Diam.		
Rm @		
Operating Time	1.5 HOURS	1.5 HOURS
Truck No.	36	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	273.5	4	3	100	0	18	3	500	0	150 API
TWO	0	7.2	4	3	100	0	18	2	1000	8 L	300 API
TWO	7.2	187.5	4	3	100	0	18	2	500	0	150 API

REMARKS RUN #1 LOGGED THROUGH ROTARY DRILL RODS: RUN #2 - OPEN HOLE

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W ___ M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH-80-51
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	FBL,GRN,DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	13 JUNE 1980		
First Reading	188 M		
Last Reading	0		
Footage Logged	188		
Depth Reached	188.3		
Depth Driller	274		
Casing Roke			
Casing Driller	24.3		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	12.7		
Operating Time	1.5 HOURS		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	21	8					.5	5 K	2.37 R	96.96
ONE	21	188	8					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

CALIPER
DIAMETER -CM

DEPTHS

BULK DENSITY
(GRAMS/CC)

PR- Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-52
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, DENS-CAL, DIR

Permanent Datum GROUND LEVEL Elev. ____ K.B. ____
Log Measured from GROUND LEVEL ____ Above Perm. Datum CSG ____
Well Depths Measured from GROUND LEVEL ____ G.L. ____

Run. No.	ONE			
Date	22 JUNE 1980			
First Reading	144 M			
Last Reading	21			
Footage Logged	123			
Depth Reached	144.4			
Depth Driller	145			
Casing Roke	24			
Casing Driller	19			
Fluid Type	AIR WATER			
Liquid Level	21			
Min. Diam.	13.3 CM			
Rm @ °C	33 @ 25°			
Operating Time	1 HOUR			
Truck No.	36			

Recorded By FERGUSON Witnessed By PANCHY

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 700 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

R-Monkman 8D(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-52
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DENS,CAL,FBL,DIR

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

K.B.
CSG
G.L.

Run No.	ONE
Date	22 JUNE 1980
First Reading	145
Last Reading	0
Footage Logged	145
Depth Reached	145.2
Depth Driller	145
Casing Roke	24
Casing Driller	19
Fluid Type	AIR/WATER
Liquid Level	21
Min. Diam.	13.3
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON   Witnessed By PANCHY

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	21.5	4	3	100	0	18	2	1000	8L	300 API
ONE	21.5	145	4	3	100	0	18	2	500	0	150 API

REMARKS

PR-Monkman 80(3)A

ROKE SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MH-80-52

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN,FBL,DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE		
Date	22 JUNE 1980		
First Reading	144.5		
Last Reading	0		
Footage Logged	144.5		
Depth Reached	144.7		
Depth Driller	145		
Casing Roke	24		
Casing Driller	19		
Fluid Type	AIR/WATER		
Liquid Level	21		
Min. Diam.	13.3		
Operating Time	1.5 HOURS		
Truck No.	36	546	

Recorded By FERGUSON
Witnessed By PANCHY

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	144.5	8					.5	5000	2.09 R	207.96
EXP	50	75	6					.5	5000	2.09 R	207.96
EXP	100	110	6					.5	5000	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD.
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-53
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	18 JUNE 1980
First Reading	255 M
Last Reading	14.5
Footage Logged	240.5
Depth Reached	255.9
Depth Driller	256.5
Casing Roke	76.5
Casing Driller	76.5
Fluid Type	AIR/WATER
Liquid Level	14.5
Min. Diam.	13.3 CM
Rm @ °C	14.8 @ 25
Operating Time	2 HOURS
Truck No.	36

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 5000 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MH-80-53

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W____M

Other Services: FBL,CAL,DIR

Permanent Datum GROUND LEVEL Elev. ______ K.B. ______
Log Measured from GROUND LEVEL ______ Above Perm. Datum CSG ______
Well Depths Measured from GROUND LEVEL G.L. ______

Run. No.	ONE	TWO	
Date	18 JUNE 1980	18 JUNE 1980	
First Reading	255 M	256.5 M	
Last Reading	0	0	
Footage Logged	255	256.5	
Depth Reached	255.4	256.9	
Depth Driller	256	257	
Casing Roke	76.5	76.5	
Casing Driller	77	77	
Fluid Type	AIR/WATER	AIR/WATER	
Liquid Level	20.75 M	20.75 M	
Min. Diam.	13.3 CM	13.3 CM	
Rm @			
Operating Time	2 HOURS	2 HOURS	
Truck No.	36	36	

Recorded By FERGUSON
Witnessed By PLACHNER

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE			4	3	100	0	18	2	500	0	150 API
TWO	0	20.25	4	3	100	0	18	2	1000	8L	300 API
TWO	20.25	256.5	4	3	100	0	18	2	500	0	150 API

REMARKS RUN #1 THROUGH DRILL RODS. RUN #2 OPEN HOLE

PR-Monkman 80 (3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

CALIPER

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-53
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN,FBL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	18 JUNE 1980
First Reading	255 M
Last Reading	0
Footage Logged	255
Depth Reached	255.4
Depth Driller	256
Casing Roke	76.5
Casing Driller	77
Fluid Type	AIR/WATER
Liquid Level	14.5
Min. Diam.	13.3
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	255	8								

REMARKS NO DENSITY LOG BECAUSE CASING WAS SPLIT AND SHIFTED. COULD NOT GET TOOL DOWN HOLE.

DEPTHS

CALIPER
DIAMETER - CM

PR-Monkman 5D(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-54
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN,DENS-CAL,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	18 JUNE 1980		
First Reading	73.5 M		
Last Reading	32		
Footage Logged	41.5		
Depth Reached	74.2		
Depth Driller	74.7		
Casing Roke	38.0		
Casing Driller	39.4		
Fluid Type	AIR/WATER		
Liquid Level	32.5		
Min. Diam.	13.3 CM		
Rm @ °C	30.7 @ 25°		
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 1000 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-54
LOCATION MONKMAN
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS,CAL,DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	18 JUNE 1980
First Reading	74 M
Last Reading	0
Footage Logged	74
Depth Reached	74.4
Depth Driller	74.7
Casing Roke	38
Casing Driller	39.4
Fluid Type	AIR/WATER
Liquid Level	32.2
Min. Diam.	13,3 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By FLACHNER

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	31.5	4	3	100	0	18	2	1000	8L	300 API
ONE	31.5	74	4	3	100	0	18	2	500	0	150 API

REMARKS

FR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-54
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
FBL,GRN,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	18 JUNE 1980		
First Reading	73.5 M		
Last Reading	0		
Footage Logged	73.5		
Depth Reached	74.0		
Depth Driller	74.7		
Casing Roke	38.0		
Casing Driller	39.4		
Fluid Type	AIR/WATER		
Liquid Level	32.3		
Min. Diam.	13.3 CM		
Operating Time	1.5 HOURS		
Truck No.	36		

Recorded By FERGUSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	73.5	8					.5	5000	2.09 R	207.96
EXP	62	68	6					.5	5000	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ______ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-55
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS-CAL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	19 JUNE 1980		
First Reading	71 M		
Last Reading	31.5		
Footage Logged	39.5		
Depth Reached	71.1		
Depth Driller	71.2		
Casing Roke			
Casing Driller	31.9		
Fluid Type	AIR/WATER		
Liquid Level	31.5		
Min. Diam.	12.7		
Rm @ °C	30.7 @ 25°		
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON
Witnessed By PLAGNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 800 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W _____ M

COMPANY **PETRO-CANADA (MINING DEPT.)**
WELL **MH-80-55**
LOCATION **MONKMAN PASS PROJECT**
FIELD **DUKE MOUNTAIN**
PROVINCE **BRITISH COLUMBIA**

Other Services: **FBL, DENS, CAL, DIR.**

Permanent Datum **GROUND LEVEL** Elev. _____
Log Measured from **GROUND LEVEL** _____ Above Perm. Datum
Well Depths Measured from **GROUND LEVEL**

K.B. _____
CSG _____
G.L. _____

Run. No.	ONE		
Date	19 JUNE 1980		
First Reading	71 M		
Last Reading	0		
Footage Logged	71		
Depth Reached	71.1		
Depth Driller	71.2		
Casing Roke			
Casing Driller	31.9		
Fluid Type	AIR/WATER		
Liquid Level	31.5		
Min. Diam.	12.7		
Rm @			
Operating Time	1 HOUR		
Truck No.	36		

Recorded By **FERGUSON** Witnessed By **PLACHNER**

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	32	4	3	100	0	18	3	1000	8L	300 API
ONE	32	71	4	3	100	0	18	3	500	0	150 API

REMARKS

PE - Monkman 55(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W________M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-55
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:

Permanent Datum GROUND LEVEL Elev. _____
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. _____
CSG _____
G.L. _____

Run. No.	ONE		
Date	19 JUNE 1980		
First Reading	71 M		
Last Reading	0		
Footage Logged	71		
Depth Reached	71.1		
Depth Driller	71.2		
Casing Roke	31.25		
Casing Driller	31.9		
Fluid Type	AIR/WATER		
Liquid Level	31.5		
Min. Diam.	12.7 CM		
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON
Witnessed By PLAC[illegible]

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	31.3	8					.5	5000	2.37 R	96.96
ONE	31.3	71	8					.5	5000	2.09 R	207.96
EXP	60	67	6					.5	5000	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-62
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN,DENS,CAL,DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE		
Date	27 JUNE 1980		
First Reading	100 M		
Last Reading	15		
Footage Logged	85		
Depth Reached	100.4		
Depth Driller	104.5		
Casing Roke	23		
Casing Driller	24.4		
Fluid Type	AIR/WATER		
Liquid Level	15		
Min. Diam.	13.3 CM		
Rm @ °C	3.33 @ 25		
Operating Time	1 HOUR	546	
Truck No.	36		

Recorded By FERGUSON
Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 325 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)

PRIMARY SCALE
0 1000 2000
6500 11500 16500

Depths

RESISTIVITY (OHM-METERS)

SECONDARY SCALE
0 5000

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W ____ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH-80-62
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS,CAL,DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ____
CSG ____
G.L. ____

Run. No.	ONE
Date	27 JUNE 1980
First Reading	102 M
Last Reading	0
Footage Logged	102
Depth Reached	102.2
Depth Driller	104.5
Casing Roke	23
Casing Driller	24.4
Fluid Type	AIR/WATER
Liquid Level	12
Min. Diam.	~13.3 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By FLACHNER

546

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	SCINTILLIATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	11.5	4	3	100	0	18	2	1000	0	300 API
ONE	11.5	102	4	3	100	0	18	2	500	0	150 API

REMARKS

PR-Monkman 8(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W_______M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH-80-62
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN,FBL,DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	27 JUNE 1980		
First Reading	100 M		
Last Reading	0		
Footage Logged	100		
Depth Reached	100.4		
Depth Driller	104.5		
Casing Roke	23		
Casing Driller	24.4		
Fluid Type	AIR/WATER		
Liquid Level	15		
Min. Diam.	13.3 CM		
Operating Time	1 HOUR		
Truck No.	36		

546

Recorded By FERGUSON

Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	23.5	8					.5	5 K	2.37 R	96.96
ONE	23.5	100	8					.5	5 K	2.09 R	207.96
EXP	27	36	6					.5	5 K	2.09 R	207.96
EXP	53	60	6					.5	5 K	2.09 R	207.96
EXP	92	98	6					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR-Monkman 80 (3)A

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 63
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	11 AUG. 1980
First Reading	190.5 M
Last Reading	22.5
Footage Logged	168
Depth Reached	190.8
Depth Driller	191.7
Casing Roke	40.5
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	22.5
Min. Diam.	14.7 CM
Rm @ °C	33.3 @ 25
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By FLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 830 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 63
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DENS, CAL FBL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE	TWO
Date	16 AUG. 1980	11 SEPT. 1980
First Reading	127 M	191 M
Last Reading	0	127
Footage Logged	127	64
Depth Reached	127.2	191.2
Depth Driller	128	191.7
Casing Roke	40.5	40.5
Casing Driller		
Fluid Type	AIR/WATER	AIR/WATER
Liquid Level	23.8	21.8
Min. Diam.	14.7 CM	14.7 CM
Rm @		
Operating Time	1 HOUR	1 HOUR
Truck No.	36	36

Recorded By FERGUSON Witnessed By PANCHY

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	
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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

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.
2	0	21.2	4	3	100	0	18	2	1000	8 L	300
2	21.2	127	4	3	100	0	18	2	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON

GAMMA RAY INCREASES → API 18 — 0 18

NEUTRON INCREASES → API 300 — 2400 5400 8400

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 63
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W M

Other Services: GRN, FBL, DIR

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

K.B.
CSG
G.L.

Run No.	ONE	TWO
Date	16 AUG. 1980	11 SEPT. 1980
First Reading	127	190.5
Last Reading	0	127
Footage Logged	127	63.5
Depth Reached	127.1	190.8
Depth Driller	128	191.7
Casing Roke	40.5	40.5
Casing Driller		
Fluid Type	AIR/WATER	AIR/WATER
Liquid Level	23.8	23.8
Min. Diam.	14.7 CM	14.7 CM
Operating Time	1 HOUR	1 HOUR
Truck No.	36	36

Recorded By FERGUSON Witnessed By PANCHY

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
1	0	127	8					.5	5 K	2.09	207.96
EXP	110	120	4					.5	5 K	2.09	207.96
EXP	47	54	4					.5	5 K	2.09	207.96
2	127	190.5	8								
EXP											

REMARKS DENSITY TOOL # 554AS
CALIPER TOOL # 586

ROKE

FOCUSED BEAM LOG

PR-Monkman 80(3)A

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 66
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M
Other Services: GRN, DENS, CAL, DIR
Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL
Well Depths Measured from GROUND LEVEL Above Perm. Datum
K.B.
CSG
G.L.

Run. No.	ONE
Date	24 AUG. 1980
First Reading	264.5 M
Last Reading	55
Footage Logged	214
Depth Reached	264.6
Depth Driller	275.8
Casing Roke	97.5
Casing Driller	97.5
Fluid Type	AIR/WATER
Liquid Level	59.5
Min. Diam.	13.3 CM
Rm @ °C	18.2 @ 25
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 400 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 200 OHM/DIV SECONDARY 1000 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 10000		PRIMARY SCALE 0 2000 4000 13000 23000 33000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 66
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W_____M

Other Services:
DENS, CAL,
FBL, DIR

Permanent Datum GROUND LEVEL Elev. ____
Log Measured from GROUND LEVEL ____ Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ____
CSG ____
G.L. ____

Run. No.	ONE (RODS)	TWO (OPEN)
Date	24 AUG. 1980	24 AUG. 1980
First Reading	266	264.5
Last Reading	0	0
Footage Logged	266	264.5
Depth Reached	266.1	264.9
Depth Driller	266.7	275.8
Casing Roke	97.5	97.5
Casing Driller	97.5	97.5
Fluid Type	AIR/WATER	AIR/WATER
Liquid Level	58	58
Min. Diam.	13.3 CM	13.3 CM
Rm @		
Operating Time	1.5 HOURS	1.5 HOURS
Truck No.	36	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	57.3	4	3	100	0	18	2	1000	8 L	300
1	57.3	262.5	4	3	100	0	18	2	500	0	150
2	262.5	266	4	3	100	0	18	2	500	0	150

REMARKS RUN # 1 THRU DRILL RODS. RUN # 2, OPEN HOLE. CAVED AT 264.9 M

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.

LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MH - 80 - 67

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS, CAL, DIR

Permanent Datum GROUND LEVEL Elev.

Log Measured from GROUND LEVEL Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	20 AUG. 1980
First Reading	164 M
Last Reading	79.6
Footage Logged	84.4
Depth Reached	164.1
Depth Driller	164.6
Casing Roke	0
Casing Driller	0.62
Fluid Type	AIR/WATER
Liquid Level	79.6
Min. Diam.	15.3 CM
Rm @ °C	21 @ 25
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON

Witnessed By FLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 475 OHMS

7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY

PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

PR-Monkman 80(3)A

FILE NO.

LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH 80 - 67
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL, DENS, CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	20 AUG. 1980
First Reading	164.5 M
Last Reading	0
Footage Logged	164.5
Depth Reached	164.6
Depth Driller	164.6
Casing Roke	0
Casing Driller	0.62
Fluid Type	AIR/WATER
Liquid Level	97.6
Min. Diam.	15.3 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PANCHY

546

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
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	97.6	4	3	100	0	18	2	1000	8 L	300
1	97.6	164.5	4	3	100	0	18	2	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18		API 300
0 — 180		2400 — 5400 — 8400

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

CALIPER

PR-Monkman 80(3)A

FILE NO.

LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MH - 80 - 67

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	20 AUG. 1980
First Reading	163 M
Last Reading	0
Footage Logged	163
Depth Reached	163.3
Depth Driller	164.6
Casing Roke	0
Casing Driller	0.62
Fluid Type	AIR/WATER
Liquid Level	
Min. Diam.	15.3 CM
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PANCHY

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	163	8					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS CALIPER TOOL # 586

PR-Monkman 80(3)A

ROKE SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 68
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: NIL
K.B.
CSG
G.L.

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

Run, No.	ONE		
Date	20 AUG. 1980		
First Reading	31		
Last Reading	0		
Footage Logged	31		
Depth Reached	31.3		
Depth Driller	32		
Casing Roke	6.1		
Casing Driller	6.09		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	15.3 CM		
Operating Time	.5 HOURS		
Truck No.	36		

546

Recorded By FERGUSON
Witnessed By PANCHY

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	31	8					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS

PR-Monkman 93I(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 70
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W ____ M
Other Services: DIR
Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	26 AUG. 1980
First Reading	213 M
Last Reading	0
Footage Logged	213
Depth Reached	213.0
Depth Driller	213.97
Casing Roke	1.0
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	11.5
Min. Diam.	14.7 CM
Rm @	
Operating Time	2 HOURS
Truck No.	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	10.5	4	3	100	0	18	2	1000	0	300
1	10.5	213	4	3	100	0	18	2	500	0	150

REMARKS

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. LSD SEC TWP RGE W ______ M	COMPANY PETRO-CANADA (MINING DEPT.) WELL MH - 80 - 71 LOCATION MONKMAN PASS PROJECT FIELD DUKE MOUNTAIN PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS CAL, DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from GROUND LEVEL ______ Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE		
Date	3 SEPT. 1980		
First Reading	104 M		
Last Reading	9.4		
Footage Logged	94.6		
Depth Reached	104.4		
Depth Driller	111.3		
Casing Roke	2.5		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	9.4		
Min. Diam.			
Rm @ °C	22 @ 25		
Operating Time	.5 HOURS		
Truck No.	36	546	

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 600 OHMS
7 ELECTRODE SONDE 20 CM BEAMWIDTH 100 CM ARRAY
PRIMARY 1000 OHM/DIV SECONDARY 500 OHM/DIV

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W ____ M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH - 80 - 71
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	FBL, DENS, CAL, DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	3 SEPT. 1980		
First Reading	104.5 M		
Last Reading	0		
Footage Logged	104.5		
Depth Reached	104.7		
Depth Driller	111.3		
Casing Roke	2.5		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	9.3		
Min. Diam.			
Rm @			
Operating Time	1 HOUR		
Truck No.	36		

547

Recorded By FERGUSON

Witnessed By PLACHNER

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	152 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	102 MM
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
HOIST TRUCK NO.	36	SERIAL NO.	188
INSTRUMENT TRUCK NO.	36	SPACING	43 CM
TOOL SERIAL NO.	GRN 125A002	TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	8.8	4	3	100	0	18	2	1000	0	400
1	8.8	104.5	4	3	100	0	18	2	500	0	200

REMARKS NEW SCALE ON NEUTRON TRACK TO COMPENSATE FOR NEW GRN LOGGING TOOL

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

PR-Monkman 80(3)A

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MH - 80 - 71
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	GRN, FBL, DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	3 SEPT. 1980		
First Reading	103.5 M		
Last Reading	0		
Footage Logged	103.5 M		
Depth Reached	103.9		
Depth Driller	111.3		
Casing Roke	2.5		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	9.4		
Min. Diam.			
Operating Time	1 HOUR		
Truck No.	36		

Recorded By FERGUSON Witnessed By FLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	103.5	8					.5	5 K	2.09 R	207.96
EXP	15	33	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS CALIPER TOOL # 586

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR-Monkman 80(3)A

FILE NO.

LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 72
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS, CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	30 AUG. 1980
First Reading	86 M
Last Reading	2
Footage Logged	84
Depth Reached	86.2
Depth Driller	86.9
Casing Roke	3.5
Casing Driller	3.7
Fluid Type	AIR/WATER
Liquid Level	2.0
Min. Diam.	13.3 CM
Rm @ °C	28.6 @ 25
Operating Time	.5 HOURS
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 220 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE		PRIMARY SCALE
0 5000		0 1000 2000
		6500 11500 16500

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 72
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
FBL, DENS, CAL
DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	30 AUG. 1980
First Reading	86.5
Last Reading	0
Footage Logged	86.5
Depth Reached	86.7
Depth Driller	86.9
Casing Roke	3.5
Casing Driller	3.7
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13.3 CM
Rm @	
Operating Time	.5 HOURS
Truck No.	36

Recorded By FERGUSON Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	86.5	4	3	100	0	18	2	500	0	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 18 0 180		API 150 0 1500 3000

PR-Monkman COAL(3)A

ROKE
OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 72
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: GRN, FBL, DIR

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

K.B.
CSG
G.L.

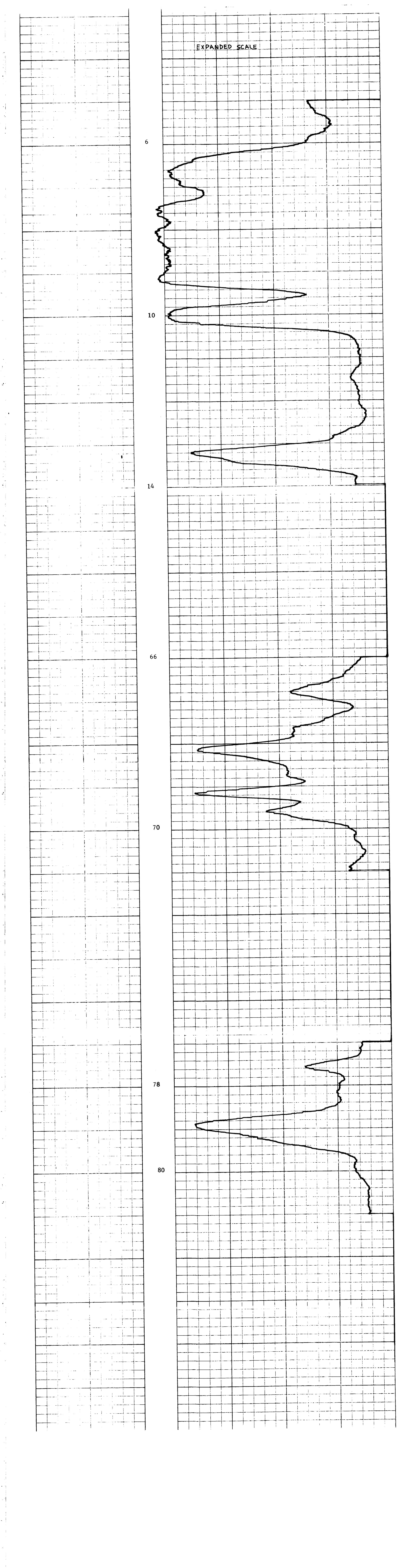
Run. No.	ONE
Date	30 AUG. 1980
First Reading	85.5 M
Last Reading	0
Footage Logged	85.5
Depth Reached	85.9
Depth Driller	86.9
Casing Roke	3.5
Casing Driller	3.7
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13.3 CM
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By FLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
1	0	85.5	8					.5	5 K	2.09 R	207.96
EXP	5	14	4					.5	5 K	2.09 R	207.96
EXP	66	71	4					.5	5 K	2.09 R	207.96
EXP	77	81	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS CALIPER TOOL # 586



PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MH - 80 - 74
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DENS, CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	6 SEPT. 1980
First Reading	202 M
Last Reading	0
Footage Logged	202
Depth Reached	202.4
Depth Driller	202.7
Casing Roke	5.4
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	10.9
Min. Diam.	
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PLACHNER

546

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	GRN 125A002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	10.4	4	3	100	0	18	2	1000	8 L	400
1	10.4	202	4	3	100	0	18	2	500	0	200

REMARKS NEW SCALE ON NEUTRON TRACK TO COMPENSATE FOR NEW GRN LOGGING TOOL.

PR-Monkman 93C3JA

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)

WELL MH - 80 - 74

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: GRN, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	3 SEPT. 1980		
First Reading	201.5 M		
Last Reading	0		
Footage Logged	201.5		
Depth Reached	201.9		
Depth Driller	202.7		
Casing Roke	5.4		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	10.9		
Min. Diam.			
Operating Time	1 HOUR		
Truck No.	36		

546

Recorded By FERGUSON Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	201.5	8					.5	5 K	2.09 R	207.96
EXP	29	35	4					.5	5 K	2.09 R	207.96
EXP	55	65	4					.5	5 K	2.09 R	207.96
EXP	72	78	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS CALIPER TOOL # 586

CALIPER
DIAMETER -CM

DEPTHS

GAMMA RAY
API

BULK DENSITY
(GM/CC)

PR - Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 25
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: NONE

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well-Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE		
Date	12 SEPT. 1980		
First Reading	36 M		
Last Reading	0		
Footage Logged	36		
Depth Reached			
Depth Driller			
Casing Roke	33.5		
Casing Driller			
Fluid Type			
Liquid Level	24.9		
Min. Diam.			
Rm @			
Operating Time	.5 HOURS		
Truck No.	36		

546

Recorded By FERGUSON Witnessed By KNEALE

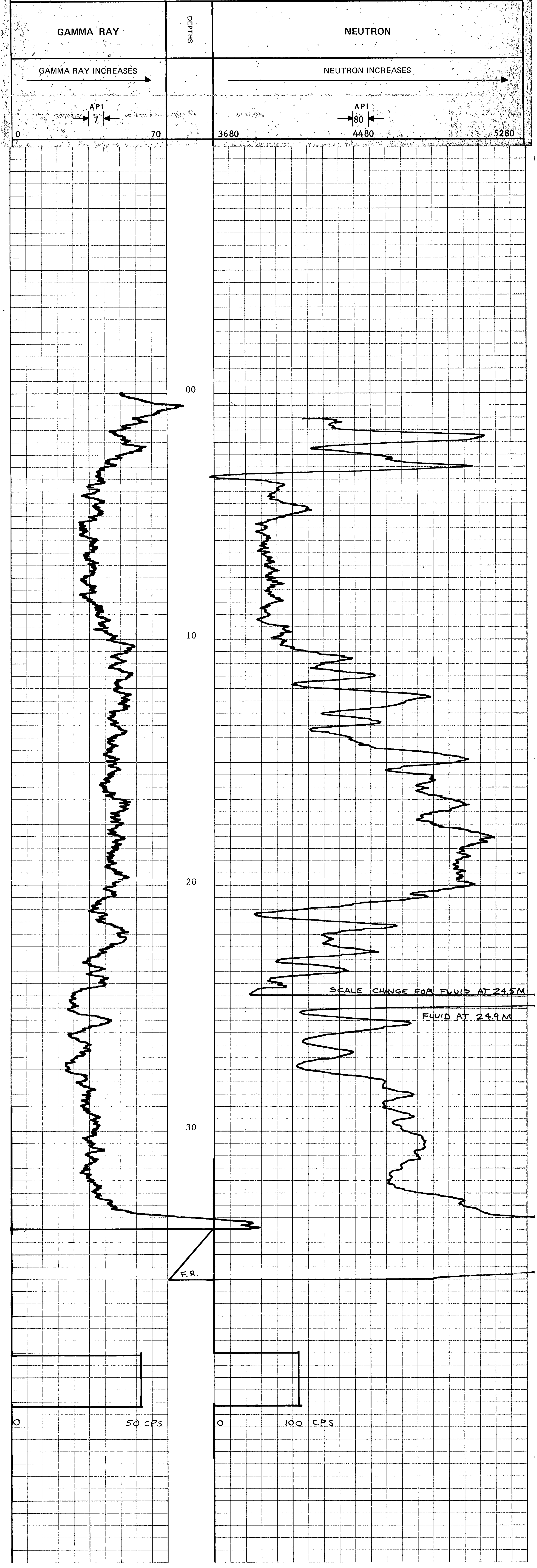
EQUIPMENT DATA

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	GRN 125A002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	24.5	4	3	500	0	7	3	1000	46 L	80
1	24.5	36	4	3	500	0	7	3	500	0	40

REMARKS



PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-25
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M

Other Services:
DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run No.	ONE
Date	18 MAR 80
First Reading	163.60 M
Last Reading	00
Footage Logged	163.60
Depth Reached	164.50
Depth Driller	165.30
Casing Roke	33.00
Casing Driller	
Fluid Type	WATER
Liquid Level	25.00
Min. Diam.	15.24 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	163.60	10					0.2	5000	2.08R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

EXPANDED SCALE
40 TO 1 RATIO

PR-Monkman 80(3)A

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-27
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA DIR
Other Services:

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	21 MAR 80
First Reading	145.60 M
Last Reading	00
Footage Logged	145.60
Depth Reached	146.40
Depth Driller	146.40
Casing Roke	10.00
Casing Driller	
Fluid Type	WATER
Liquid Level	00
Min. Diam.	15.24 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	145.60	10					0.2	5000	2.08R	188.89

REMARKS DENSI TOOL #128A
CORED HOLE

PR-Monkman 50(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-30
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DIR
K.B.
CSG
G.L.

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 40 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Run. No.	ONE		
Date	22 MAR 80		
First Reading	126.80 M		
Last Reading	00		
Footage Logged	126.80		
Depth Reached	127.70		
Depth Driller	128.10		
Casing Roke	15.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	9.00		
Min. Diam.	15.24 CM		
Operating Time	1 HR		
Truck No	36		

5.46

Recorded By CARLSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	126.80	10					0.2	5000	2.08 R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

DEPTHS

CASING - 15.0 METERS

PR-Monkman 88(3)A

ROKE SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W ____ M	
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MRC 80-32
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	TOP OF CASING 16 CM Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE		
Date	23 MAR 80		
First Reading	66.40 M		
Last Reading	00		
Footage Logged	66.40		
Depth Reached	67.10		
Depth Driller	67.10		
Casing Roke	16.00		
Casing Driller			
Fluid Type	WATER		
Liquid Level	7.00		
Min. Diam.	15.24 CM		
Operating Time	1 HR		
Truck No.	36 /		
Recorded By	CARLSON	Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	66.40	10					0.2	5000	2.08 R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

PR-Monkman 80(33)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO	
LSD	
SEC	
TWP	
RGE	
W M	

COMPANY PETRO-CANADA (MINING DEPT)

WELL MRC 80-33

LOCATION MONKMAN PASS PROJECT

FIELD DUKE MOUNTAIN

PROVINCE BRITISH COLUMBIA

Other Services: NONE

Permanent Datum GROUND LEVEL Elev.

Log Measured from TOP OF DRILL TABLE 1.2M Above Perm. Datum

Well Depths Measured from GROUND LEVEL

K.B.

CSG

G.L.

Run No.	ONE		
Date	26 MAR 80		
First Reading	134.0 M		
Last Reading	00		
Footage Logged	134.0		
Depth Reached	134.2		
Depth Driller	134.2		
Casing Roke	20.0		
Casing Driller			
Fluid Type	WATER		
Liquid Level	12.0		
Min Diam	15.24CM		
Rm @			
Operating Time	1 HR		
Truck No	36		

546

Recorded By CARLSON Witnessed By PLACHNER

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	134.0	4	3	100	0	12	3	500	0	200

REMARKS LOGGED THROUGH DRILL RODS. NO FURTHER LOGGING DONE DUE TO DANGEROUS CONDITION OF HOLE.

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 12		API 200
0 — 120		0 — 2000 — 4000

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

PR-Monkman 80(3)A

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-35
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W M

Other Services:
GRN, DEN, CAL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	30 MAR 80
First Reading	150.60 M
Last Reading	34.00
Footage Logged	116.60
Depth Reached	151.50
Depth Driller	152.80
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	15.50
Min. Diam.	13.30 CM
Rm @ °C	15.38 @ 20
Operating Time	45 MIN
Truck No.	36

Recorded By CARLSON Witnessed By PLACHNER

546

Remarks FBL # 5 CURRENT RANGE STANDARD MUDFISH RESISTANCE 150 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

93-P-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W______M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-35
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DEN,CAL,FEL,DIR

Permanent Datum GROUND LEVEL Elev. ______
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B. ______
CSG ______
G.L. ______

Run. No.	ONE
Date	30 MAR 80
First Reading	152.10 M
Last Reading	00
Footage Logged	152.10
Depth Reached	152.40
Depth Driller	152.81
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	15.50
Min. Diam.	13.30 CM
Rm @	
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

346

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.	RGRN 125A	LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	RGRN 125A
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	10 CM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.07 M	LENGTH	15 CM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	256
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	125A001	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	00	14.5	4	3	100	0	18	3	1000	7L	300
	14.5	152.1	4	3	100	0	18	3	500	0	150

REMARKS CORED HOLE

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

[illegible]

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-35
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	30 MAR 80
First Reading	150.50 M
Last Reading	00
Footage Logged	150.50
Depth Reached	151.40
Depth Driller	152.80
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	15.50
Min. Diam.	13.30 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON Witnessed By FALCNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	150.50	10					0.2	5000	2.08 R	188.89
CAL	00	151.30									

REMARKS
DENS TOOL #128A
CAL TOOL #587
CORED HOLE

ROKE

SIDEWALL DENSILOG

PR-Monkman PR(3)A

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-36
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DIR

Permanent Datum GROUND LEVEL Elev. ___ K.B. ___
Log Measured from TOP OF CASING 20 CM Above Perm. Datum CSG ___
Well Depths Measured from GROUND LEVEL G.L. ___

Run. No.	ONE
Date	31 MAR 80
First Reading	125.80 M
Last Reading	00
Footage Logged	125.80
Depth Reached	126.10
Depth Driller	128.41
Casing Roke	13.00
Casing Driller	
Fluid Type	WATER
Liquid Level	7.00
Min. Diam.	13.30 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	125.80	10					0.2	5000	2.08R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

DEPTHS

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-39
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W M

Other Services:
DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	3 APR 80
First Reading	175.7 M
Last Reading	00
Footage Logged	175.7
Depth Reached	176.6
Depth Driller	177.4
Casing Roke	86.0
Casing Driller	
Fluid Type	WATER
Liquid Level	7.5
Min. Diam.	15.24 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By FLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	175.7	10					0.2	5000	2.08 R	188.89

REMARKS DENS TOOL #128A

CASING - 86.0 METERS

ROKE

OIL ENTERPRISES LTD. CALGARY ALBERTA

SIDEWALL DENSILOG

PR-Monkman 80(3)A

FILE NO.
COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-42
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
LSD
SEC
TWP
RGE
W M

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

Other Services: DIR
K.B.
CSG
G.L.

Run No. ONE
Date 6 APR 80
First Reading 179.40 M
Last Reading 00
Footage Logged 179.40
Depth Reached 180.30
Depth Driller 180.50
Casing Roke 14.00
Casing Driller
Fluid Type WATER
Liquid Level 5.00
Min. Diam. 15.24 CM
Operating Time 1 HR
Truck No. 36
Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	179.40	10					0.2	5000	2.08 R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

PR - Monkman [illegible]

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W	M
COMPANY	PETRO-CANADA (MINING DEPT)
WELL	MRC 80-44
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 30 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run. No.	ONE
Date	8 APR 80
First Reading	189.10 M
Last Reading	00
Footage Logged	189.10
Depth Reached	190.00
Depth Driller	192.15
Casing Roke	6.50
Casing Driller	
Fluid Type	WATER
Liquid Level	
Min. Diam.	15.24 CM
Operating Time	1 HR
Truck No.	36
Recorded By	CARLSON
Witnessed By	PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	00	189.10	10					0.2	5000	2.08R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

DEPTHS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-45
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE
Date	10 APR 80
First Reading	148.10 M
Last Reading	00
Footage Logged	148.10
Depth Reached	149.00
Depth Driller	149.45
Casing Roke	10.50
Casing Driller	
Fluid Type	WATER
Liquid Level	8.50
Min. Diam.	15.24 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	148.10	10					0.2	5000	2.08 R	188.89

REMARKS DENS TOOL #128A
CORED HOLE

DEPTHS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-47
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	6 JUNE 1980		
First Reading	108 M		
Last Reading	0		
Footage Logged	108		
Depth Reached	109.1		
Depth Driller	110.3		
Casing Roke	24.4		
Casing Driller	24.4		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	15 CM		
Operating Time	2 HOURS		
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	24.0	8					.5	1 K	2.37 R	96.96
ONE	24.0	108	8					.5	1 K	2.09 R	207.96
EXP	23	106	6					.5	1 K	2.09 R	207.96

REMARKS DENSITY TOOL #554AS

CALIPER
DIAMETER –

GAMMA RAY
API

DEPTHS

BULK DENSITY
(GRAMS/CC)

1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

92 - Monkman 80(3)A

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC - 80 - 25
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W M	
Other Services:	NONE
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Drill Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run No.	ONE
Date	12 SEPT. 1980
First Reading	36 M
Last Reading	0
Footage Logged	36
Depth Reached	
Depth Driller	33.5
Casing Roke	
Casing Driller	
Fluid Type	
Liquid Level	24.9
Min. Diam.	
Rm @	
Operating Time	.5 HOURS
Truck No.	36
Recorded By	FERGUSON
Witnessed By	KNEALE

546

EQUIPMENT DATA

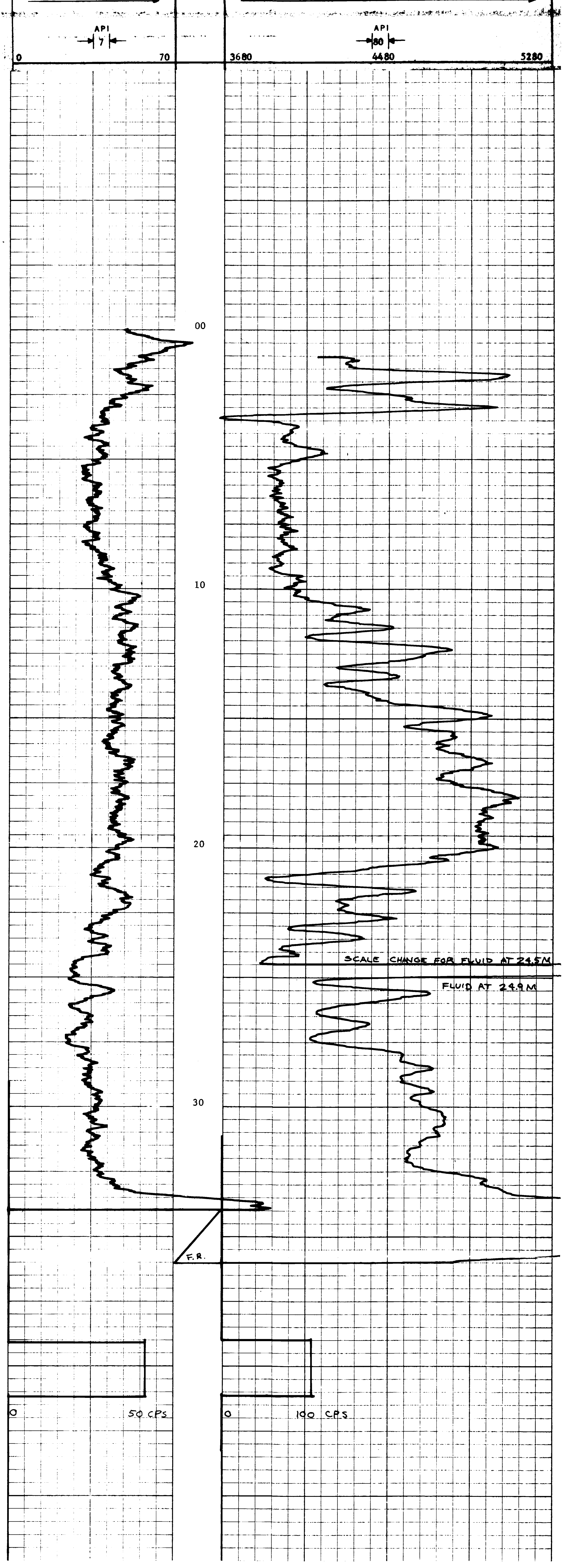
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	GRN 125A002	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	24.5	4	3	500	0	7	3	1000	46 L	80
1	24.5	36	4	3	500	0	7	3	500	0	40

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →



PR-Monkman 80(3)A

ROKE SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT)
WELL MRC 80-35
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA
Other Services: GRN, FBL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from TOP OF CASING 20 CM Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No.	ONE
Date	30 MAR 80
First Reading	150.50 M
Last Reading	00
Footage Logged	150.50
Depth Reached	151.40
Depth Driller	152.80
Casing Roke	34.00
Casing Driller	
Fluid Type	WATER
Liquid Level	15.50
Min. Diam.	13.30 CM
Operating Time	1 HR
Truck No.	36

Recorded By CARLSON
Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	00	150.50	10					0.2	5000	2.08 R	188.89
CAL	00	151.30									

REMARKS
DENS TOOL #128A
CAL TOOL #587
CORED HOLE

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
LSD	
SEC	
TWP	
RGE	
W M	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC-80-56
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
Other Services:	
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	GROUND LEVEL Above Perm. Datum
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	20 JUNE 1980
First Reading	101 M
Last Reading	0
Footage Logged	101
Depth Reached	102
Depth Driller	103
Casing Roke	28.3
Casing Driller	30.4
Fluid Type	AIR/WATER
Liquid Level	
Min. Diam.	15 CM
Operating Time	2 HOURS
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	22.6	8					.5	5 K	2.37 R	96.96
ONE	22.6	101	8					.5	5 K	2.09 R	207.96
EXP	93	100	6					.5	5 K	2.09 R	207.96
EXP	41	48	6					.5	5 K	2.09 R	107.96

REMARKS DENS TOOL #554AS

PR-Monkman 83(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-57
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
NIL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run. No.	ONE		
Date	20 JUNE 1980		
First Reading	61.5 M		
Last Reading	0		
Footage Logged	61.5		
Depth Reached	61.7		
Depth Driller	67.0		
Casing Roke	35.5		
Casing Driller	35.0		
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	13.3 CM		
Operating Time	1 HOUR		
Truck No.	36	546	

Recorded By FERGUSON Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	61.5	8					.5	5 K	2.09 R	207.96
EXP	55	65	5					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

CALIPER
DIAMETER - CM

10 15 20 25 30

DEPTHS

BULK DENSITY
(GRAMS/CC)

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-58
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: NIL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No.	ONE		
Date	20 JUNE 1980		
First Reading	39.5 M		
Last Reading	0		
Footage Logged	39.5		
Depth Reached	39.8		
Depth Driller	39.9		
Casing Roke	30.6		
Casing Driller	30.0		
Fluid Type	AIR/WATER		
Liquid Level	~		
Min. Diam.	13.3 CM		
Operating Time	1 HOUR		
Truck No.	36		

546

Recorded By FERGUSON
Witnessed By PLACHNER

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	39.5	8					.5	5 K	2.09 R	207.96
EXP	32	39	6					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman. 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-59
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS, CAL, DIR

Permanent Datum GROUND LEVEL Elev. ________
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL

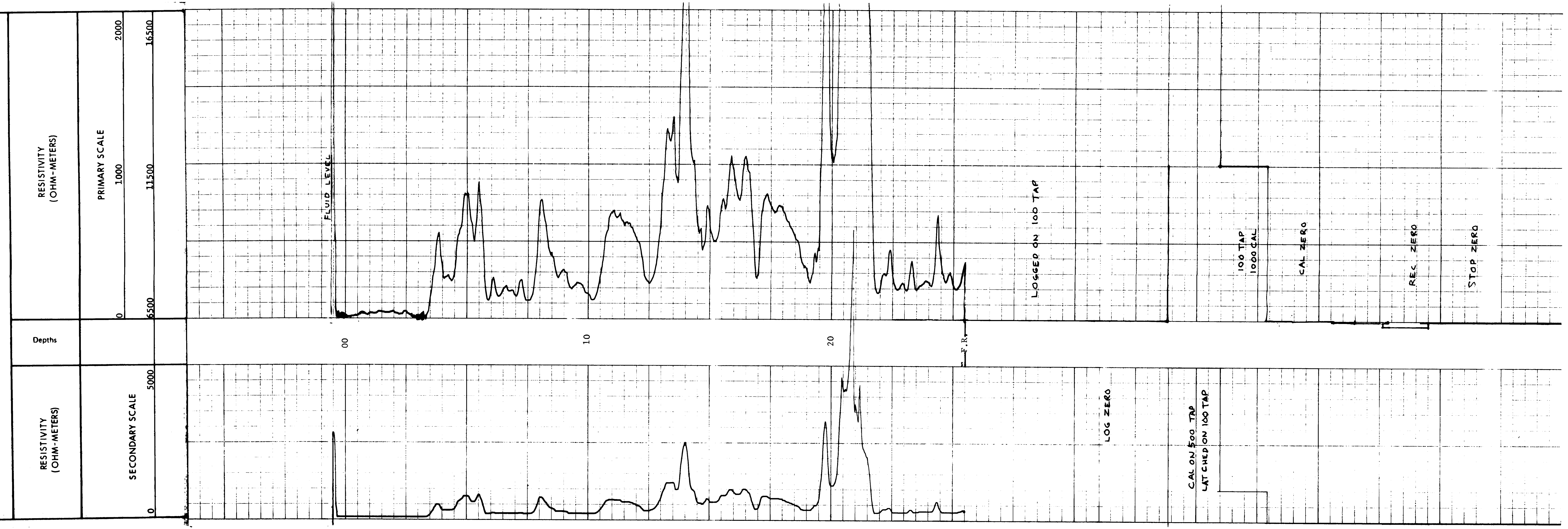
K.B. ________
CSG ________
G.L. ________

Run. No.	ONE		
Date	21 JUNE 1980		
First Reading	25.5 M		
Last Reading	0		
Footage Logged	25.5		
Depth Reached	25.9		
Depth Driller	24.4		
Casing Roke	6.0		
Casing Driller	6.1		
Fluid Type	AIR/WATER		
Liquid Level	0.0		
Min. Diam.	13.3 CM		
Rm @ °C	40 @ 25		
Operating Time	.5 HOURS		
Truck No.	36		

Recorded By FERGUSON
Witnessed By SANTIAGO

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 350 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-59
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS,CAL,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	21 JUNE 1980
First Reading	26 M
Last Reading	0
Footage Logged	26
Depth Reached	26.1
Depth Driller	26.91
Casing Roke	6.0
Casing Driller	6.1
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13,3 CM
Rm @	
Operating Time	,5 HOURS
Truck No.	36

Recorded By FERGUSON
Witnessed By SANTIAGO

546

EQUIPMENT DATA

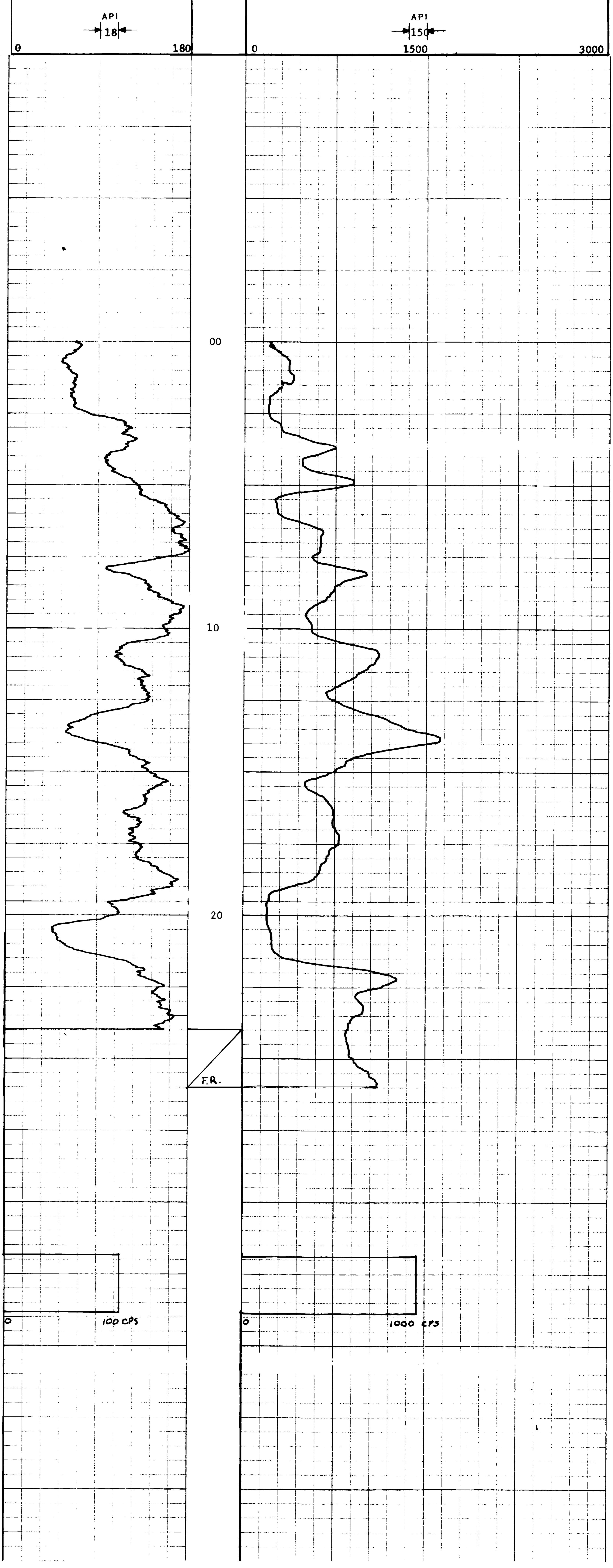
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	32 MM	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	32 MM
TYPE	SCINTILLATION	DETECTOR MODEL NO.	
LENGTH	102 MM	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	26	4	3	100	0	18	2	500	0	150 API

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

PR-Monkman 80(3)A

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC-80-59
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W___M	
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
Other Services:	FBL, GRN, DIR
K.B.	
CSG	
G.L.	

Run. No.	ONE
Date	21 JUNE 1980
First Reading	26 M
Last Reading	0
Footage Logged	26
Depth Reached	26.7
Depth Driller	24.4
Casing Roke	5.0
Casing Driller	6.1
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13.3 CM
Operating Time	.5 HOUR
Truck No.	36

Recorded By FERGUSON

Witnessed By SANTIAGO

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
ONE	0	26	8					.5	5 K	2.09 R	207.96
EXP	18	24	6					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FOCUSED BEAM LOG 20 CM

FILE NO.
LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-60
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN, DENS-CAL, DIR

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	22 JUNE 1980
First Reading	79 M
Last Reading	0
Footage Logged	79
Depth Reached	79.4
Depth Driller	79.8
Casing Roke	3.5
Casing Driller	3.6
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13.3 CM
Rm @ °C	28.5 @ 25°
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By SANTIAGO

546

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 300 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500

PR-Monkman 80(3)A

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-60
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL,DENS,CAL,DIR

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	22 JUNE 1980		
First Reading	79.5 M		
Last Reading	0		
Footage Logged	79.5		
Depth Reached	79.6		
Depth Driller	79.8		
Casing Roke	3.5		
Casing Driller	3.6		
Fluid Type	AIR/WATER		
Liquid Level	0.0		
Min. Diam.	13.3		
Rm @			
Operating Time	1 HOUR		
Truck No.	36	546	

Recorded By FERGUSON
Witnessed By SANTIAGO

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	R-GRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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.
ONE	0	79.5	4	3	100	0	18	2	500	0	150 API

REMARKS

PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC-80-60
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN, FEL, DIR

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum m
Well Depths Measured from GROUND LEVEL

K.B.
CSG
G.L.

Run No.	ONE
Date	22 JUNE 1980
First Reading	79 M
Last Reading	0
Footage Logged	79
Depth Reached	79.4
Depth Driller	79.8
Casing Roke	3.5
Casing Driller	3.6
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	13.3 CM
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By SANTAGO

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
ONE	0	7	8					.5	5 K	2.37 R	96.96
ONE	7	79	8					.5	5 K	2.09 R	207.96
EXP	36	52	6					.5	5 K	2.09 R	207.96
EXP	10	20	6					.5	5 K	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG

CALIPER

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC-80-61
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA
LSD	
SEC	
TWP	
RGE	
W ___ M	
Other Services:	DIR
Permanent Datum	GROUND LEVEL
Elev.	
Log Measured from	GROUND LEVEL
Above Perm. Datum	
Well Depths Measured from	GROUND LEVEL
K.B.	
CSG.	
G.L.	
Run. No.	ONE
Date	25 JUNE 1980
First Reading	99 M
Last Reading	0
Footage Logged	99
Depth Reached	99.3
Depth Driller	100
Casing Roke	23.6
Casing Driller	24
Fluid Type	AIR/WATER
Liquid Level	
Min. Diam.	13.3 CM
Operating Time	1 HOUR
Truck No.	36
Recorded By	FERGUSON
Witnessed By	PLACHNER

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GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
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	CPS/ DIV
ONE	0	23	8					.5	5K	2.37 R	96.96
ONE	23	99	8					.5	5K	2.09 R	207.96
EXP	51	76	6					.5	5K	2.09 R	207.96
EXP	89	99	6					.5	5K	2.09 R	207.96

REMARKS DENS TOOL #554AS

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO.

LSD
SEC
TWP
RGE
W ____ M

COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC - 80 - 64
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA

Other Services:
DENS, CAL

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	15 AUG. 1980
First Reading	106 M
Last Reading	0
Footage Logged	106
Depth Reached	106.3
Depth Driller	106.7
Casing Roke	21.4
Casing Driller	22.6
Fluid Type	AIR/WATER
Liquid Level	12.7
Min. Diam.	13.3 CM
Rm @	
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PANCHY

546

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	
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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	11.8	4	3	100	0	18	2	1000	8 L	300
1	11.8	106	4	3	100	0	18	2	500	0	150

REMARKS

PR-Monkman 80(3)A

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY
SIDEWALL DENSILOG
CALIPER

FILE NO.

LSD
SEC
TWP
RGE
W ___ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 64
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
GRN

Permanent Datum GROUND LEVEL Elev. ___
Log Measured from GROUND LEVEL ___ Above Perm. Datum
Well Depths Measured from GROUND LEVEL

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

Run. No.	ONE
Date	15 AUG. 1980
First Reading	103 M
Last Reading	0
Footage Logged	103
Depth Reached	103.4
Depth Driller	106.7
Casing Roke	21.4
Casing Driller	22.6
Fluid Type	AIR/WATER
Liquid Level	12.7
Min. Diam.	13.3 CM
Operating Time	1 HOUR
Truck No.	36

Recorded By FERGUSON
Witnessed By PANCHY

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	20.4	8					.5	5 K	2.37 R	96.96
1	20.4	103	8					.5	5 K	2.09 R	207.96
EXP	30	38	4					.5	5 K	2.09 R	207.96
EXP	56	62	4					.5	5 K	2.09 R	207.96
EXP	95	101	4					.5	5 K	2.09 R	207.96

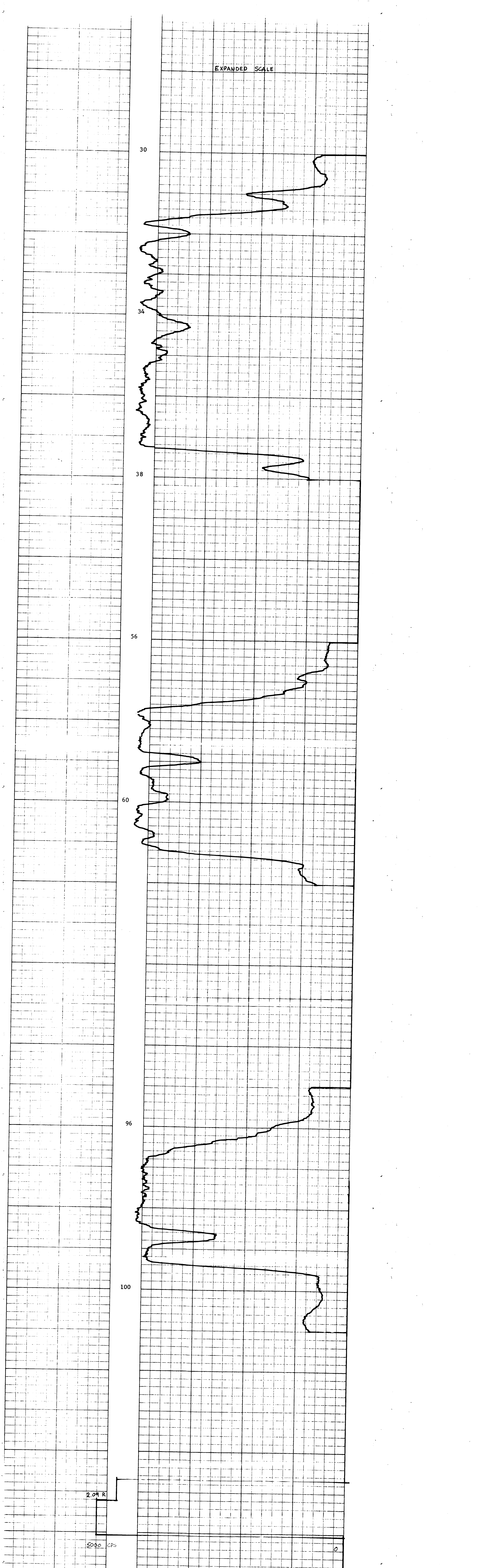
REMARKS

DEPTHS

CALIPER
DIAMETER – CM
10 15 20 25 30

GAMMA RAY
API

BULK DENSITY
(GRAMS/CC)
1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80



PR-Monkman 80(3)A

ROKE

SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W ________ M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 65
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: NIL

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

K.B.
CSG
G.L.

Run. No.	ONE		
Date	17 AUG. 1980		
First Reading	38.5 M		
Last Reading	0		
Footage Logged	38.5		
Depth Reached	38.6		
Depth Driller			
Casing Roke			
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level			
Min. Diam.	15.5 CM		
Operating Time	.5 HOURS		
Truck No.	36		

546

Recorded By FERGUSON Witnessed By PANCHY

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	38.5	8					.5	5 K	2.09 R	207.96
EXP	32	38	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS
CALIPER TOOL # 586

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 69
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services:
DENS, CAL

Permanent Datum GROUND LEVEL Elev.____ K.B.____
Log Measured from GROUND LEVEL Above Perm. Datum CSG____
Well Depths Measured from GROUND LEVEL G.L.____

Run. No.	ONE		
Date	21 AUG. 1980		
First Reading	30.5 M		
Last Reading	0		
Footage Logged	30.5		
Depth Reached	30.6		
Depth Driller	31.0		
Casing Roke	5.5		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	4.7 M		
Min. Diam.	12.7 CM		
Rm @			
Operating Time	.5 HOURS		
Truck No.	36		

Recorded By FERGUSON Witnessed By PANCHY

546

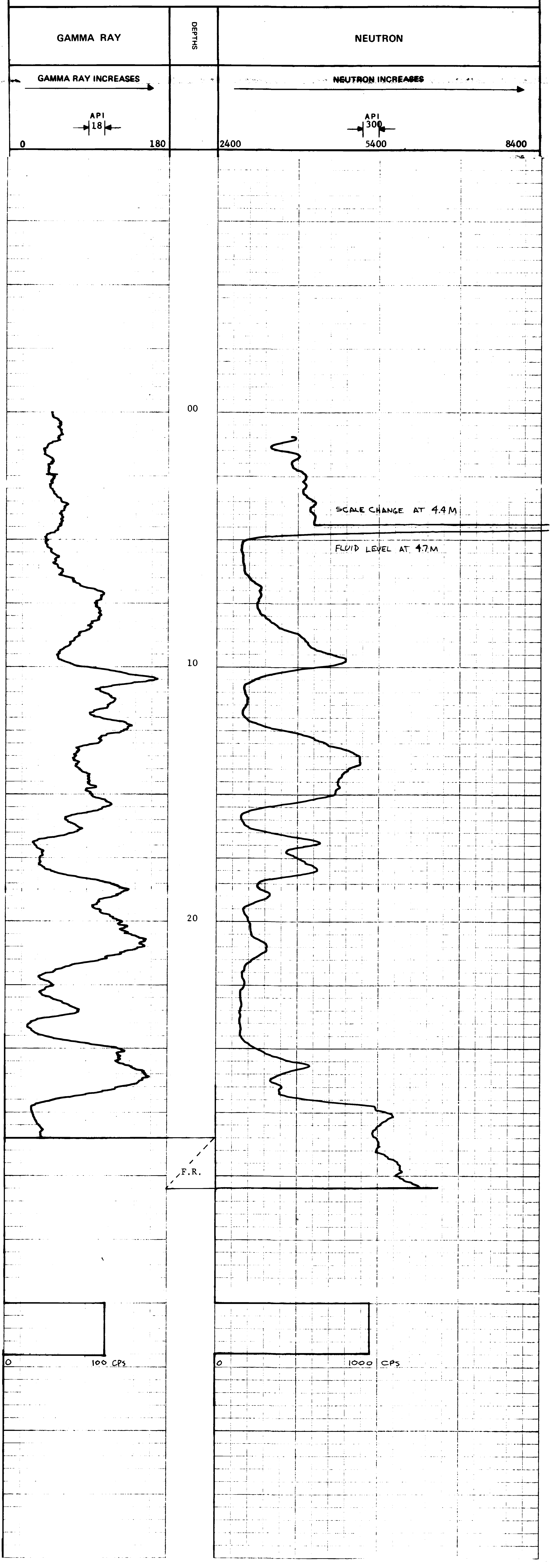
EQUIPMENT DATA

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	2.1 M	LENGTH	152 MM
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	188
HOIST TRUCK NO.	36	SPACING	43 CM
INSTRUMENT TRUCK NO.	36	TYPE	AmBe
TOOL SERIAL NO.	RGRN 125A003	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	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	4.4	4	3	100	0	18	2	1000	8 L	300
1	4.4	30.5	4	3	100	0	18	2	500	0	150

REMARKS



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

PR-Monkman 80(3)A

FILE NO.
LSD
SEC
TWP
RGE
W_____M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 69
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: GRN

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

K.B.
CSG
G.L.

Run. No.	ONE
Date	21 AUG. 1980
First Reading	29.5 M
Last Reading	0
Footage Logged	29.5
Depth Reached	29.6
Depth Driller	31.0
Casing Roke	5.5
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	4.7
Min. Diam.	12.7 CM
Operating Time	.5 HOURS
Truck No.	36

Recorded By FERGUSON Witnessed By PANCHY

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/ DIV
1	0	29.5	8					.5	5 K	2.09 R	207.96
EXP	21	26	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS
CALIPER TOOL # 586

PR-Monkman 80(3)A

ROKE

FOCUSED BEAM LOG 20 CM

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	
COMPANY	PETRO-CANADA (MINING DEPT.)
WELL	MRC - 80 - 73
LOCATION	MONKMAN PASS PROJECT
FIELD	DUKE MOUNTAIN
PROVINCE	BRITISH COLUMBIA

LSD
SEC
TWP
RGE
W M

Other Services: DENS, CAL

Permanent Datum	GROUND LEVEL	Elev.	K.B.
Log Measured from	GROUND LEVEL	Above Perm. Datum	CSG
Well Depths Measured from	GROUND LEVEL		G.L.

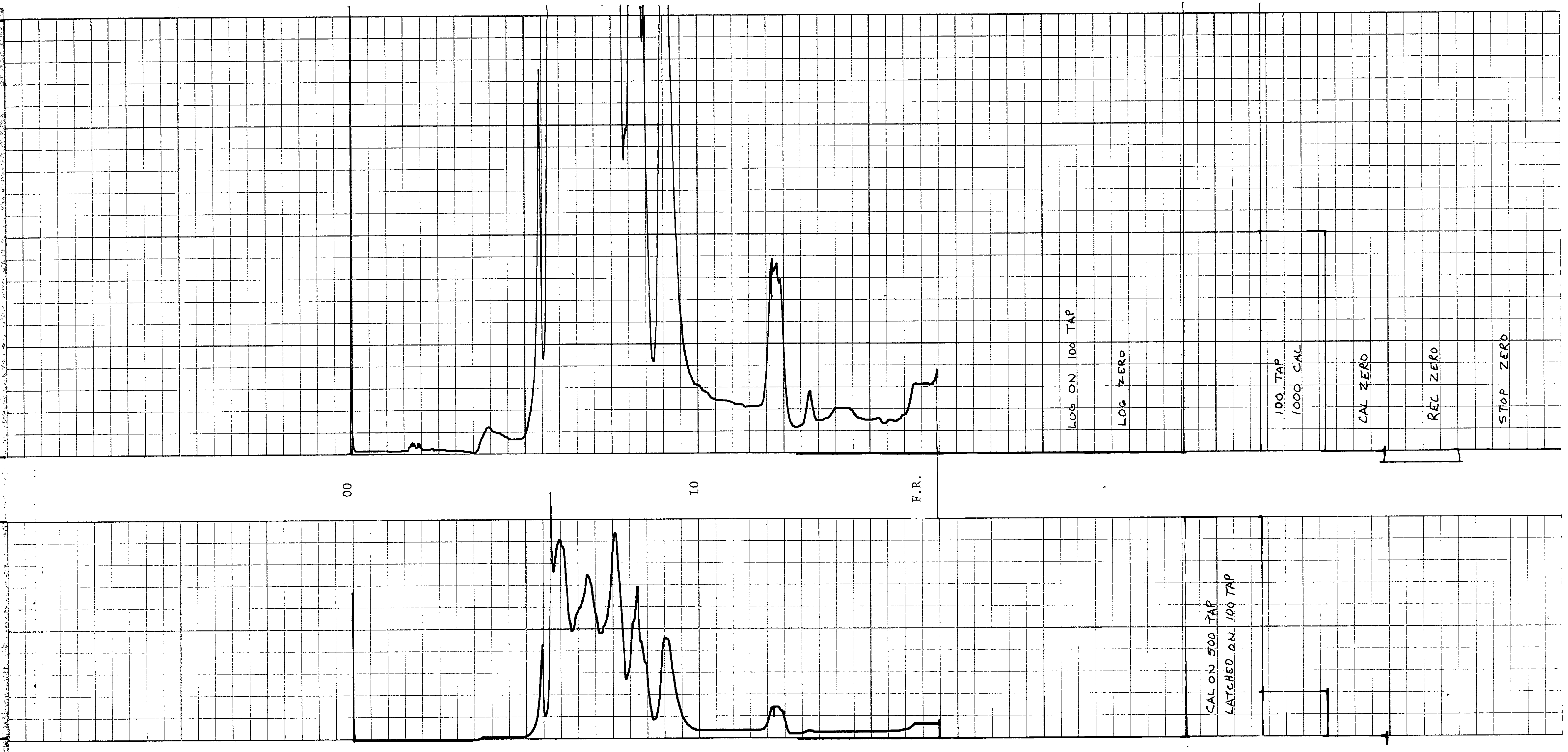
Run. No.	ONE
Date	3 SEPT. 1980
First Reading	17 M
Last Reading	0
Footage Logged	17
Depth Reached	17.2
Depth Driller	18.2
Casing Roke	3.5
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	0.0
Min. Diam.	
Rm @ °C	45.5 @ 25
Operating Time	.5 HOURS
Truck No.	36

546

Recorded By FERGUSON Witnessed By PLACHNER

Remarks FBL # 5 CURRENT RANGE STD MUDFISH RESISTANCE 450 OHMS
7 ELECTRODE SONDE 20 CM BEAM WIDTH 100 CM ARRAY
PRIMARY 100 OHM/DIV SECONDARY 500 OHM/DIV

RESISTIVITY (OHM-METERS)	Depths	RESISTIVITY (OHM-METERS)
SECONDARY SCALE 0 5000		PRIMARY SCALE 0 1000 2000 6500 11500 16500



PR-Monkman 80(3)A

ROKE
SIDEWALL DENSILOG
CALIPER

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W M

COMPANY PETRO-CANADA (MINING DEPT.)
WELL MRC - 80 - 73
LOCATION MONKMAN PASS PROJECT
FIELD DUKE MOUNTAIN
PROVINCE BRITISH COLUMBIA

Other Services: FBL

Permanent Datum GROUND LEVEL Elev.
Log Measured from GROUND LEVEL Above Perm. Datum
Well Depths Measured from GROUND LEVEL
K.B.
CSG
G.L.

Run No.	ONE		
Date	3 SEPT. 1980		
First Reading	17 M		
Last Reading	0		
Footage Logged	17		
Depth Reached	17.2		
Depth Driller	18.2		
Casing Roke	4.3		
Casing Driller			
Fluid Type	AIR/WATER		
Liquid Level	0.0		
Min. Diam.			
Operating Time			
Truck No.	36		

Recorded By FERGUSON Witnessed By PLACHNER

546

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	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	CPS/DIV
1	0	17	8					.5	5 K	2.09 R	207.96
EXP	4	12	4					.5	5 K	2.09 R	207.96

REMARKS DENSITY TOOL # 554AS CALIPER TOOL # 586