QWD 74-02

QWD 74-01

QWD 71-19

QWD 71-15

QWD 71-18

KCm(g)

BABCOCK SANDSTONES

POSSIBLE COAL ZONE CORRELATIONS

Gates 8

Gates 7

Gates 6

Gates 5

Gates 4

Gates 3

Gates 2

Gates 1

COAL SECTION

QUINTETTE SANDSTONES

WOLVERINE SEAM DESIGNATIONS

QWD 71-12

QWD 71-12
LITHOLOGIC LOG 1" = 20'

No geophysical log available for this hole.

Transition Zone

QWD 74-03

QWD No. 1

KMb

(Bird) Gething No. I

(Shactar) Gething No. II

Gething (Chamberlain) No. III

FAULT

middle coals

KGt

KCd

NOTE :

This chart correlates 1974 drill holes with selected logs from previous drilling in the Wolverine. For a complete correlation of previous work refer to the 1972 Wolverine report. All drill holes presented represent the reductions of drill hole logs and have not been corrected for true thickness.

LEGEND

SANDSTONE	CONGLOMERATE	KCm(g)	COMMOTION FORMATION (gates member)
SILTSTONE	COAL	KMb	MOOSEBAR FORMATION
SHALE	CARBONIFEROUS SHALE	KGt	GETHING FORMATION
SILTY MUDSTONE	MUDSTONE	KCd	CADOMIN FORMATION

606

Re- QUINTETTE 74(2)C

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

1974
WOLVERINE CORRELATION CHART

DRAWN BY: E. Toth	DATE: Dec. '74	SCALE: 1"=50' vert.
APPROVED BY:	DRAWING NO: WLVR 74-0551-R01	

MATCH LINE TO NORTH WOLVERINE

BLOCK II

BLOCK III

BLOCK IV

L 305

L 306

FERRY CREEK ANTICLINE

FORTRESS SYNCLINE

FOX ANTICLINE

ALLUVIUM

ALLUVIUM

BEDDING LINES

BEDDING LINES

117°10'W

55°00'N

N

L E G E N D

CRETACEOUS

- Kbl — Shaftesbury formation
- Kcm(b) — Commotion formation (Boulder Creek member)
- Kcm(h) — Commotion formation (Hultcross member)
- Kcm(g) — Commotion formation (Gates member)
- Kmb — Moosebar formation
- Kgt — Gething formation
- Kcd — Cadomin formation
- Kn\ — Nikanassin formation
- Cross section lines
- Property boundary
- Block boundary

- Sandstone
- Conglomerate
- Shale
- Mudstone
- Siltstone
- Coal outcrop
- Drillhole
- Syncline
- Anticline
- Faults: unknown, thrust
- Strike and dip
- A-A' Field Stratigraphic section

606

PR Gruntette 74(2)C

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

SOUTH WOLVERINE GEOLOGY

DRAWN BY: E. Falk	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75 - 0553 - R01	

BLOCK I

BLOCK II

ALPHA FAULT ZONE

SPARTAN THRUST

PERRY CREEK ANTICLINE

BEDDING LINES

BEDDING LINES

ALLUVIUM

UNMAPPED

UNMAPPED

MATCH LINE TO SOUTH WOLVERINE

L E G E N D

CRETACEOUS

- Kfs — Shaftesbury formation
- Kcm(b) — Commotion formation (Boulder Creek member)
- Kcm(h) — Commotion formation (Hulcross member)
- Kcm(g) — Commotion formation (Gates member)
- Kmb — Moosebar formation
- Kgt — Gething formation
- Kcd — Cadomin formation
- Kns — Nikanassin formation
- Cross section line
- Property boundary
- Block boundary
- Sandstone
- Conglomerate
- Shale
- Mudstone
- Siltstone
- Coal outcrop
- Drillhole
- Syncline
- Anticline
- Faults: unknown, thrust
- Strike and dip

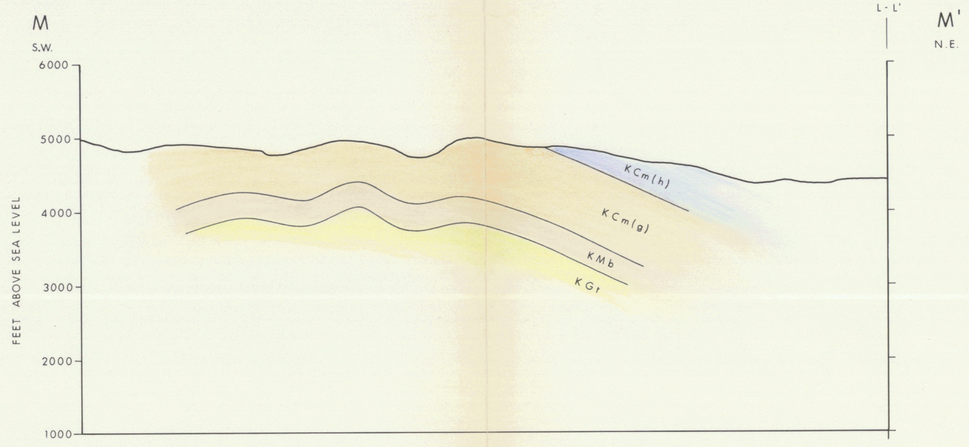
606

PR QUINTETTE ... 74(2)

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

NORTH
WOLVERINE GEOLOGY

DRAWN BY: E. TOTH	DATE: Jan '75	SCALE: 1" = 1000'	
APPROVED BY:	DRAWING NO: WLVR 75 - 0553 - R01		



CRETACEOUS

- KSh — Shaftesbury formation
- KCm(b) — Commotion formation (Boulder Creek member)
- KCm(h) — Commotion formation (Hullcross member)
- KCm(g) — Commotion formation (Gates member)
- KMb — Moosebar formation
- KGt — Gething formation
- KCd — Cadomin formation
- KNk — Nikanassin formation

- Sandstone
- Conglomerate
- Shale
- Mudstone
- Siltstone

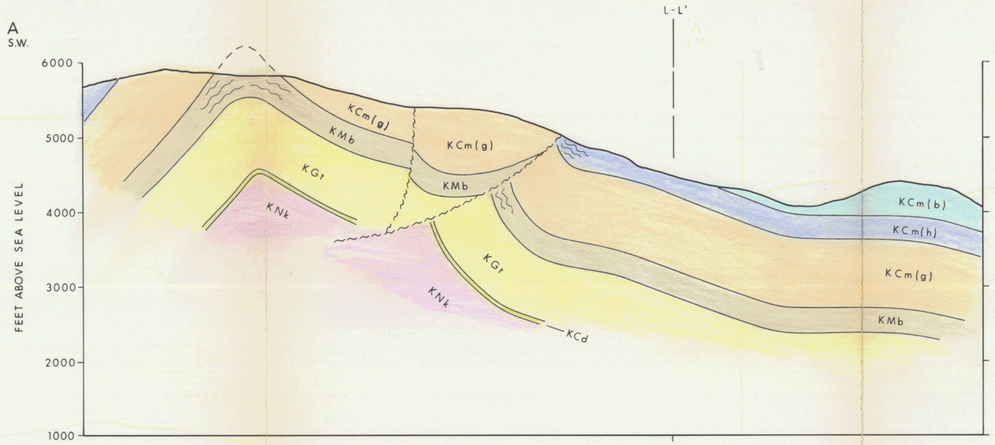
606

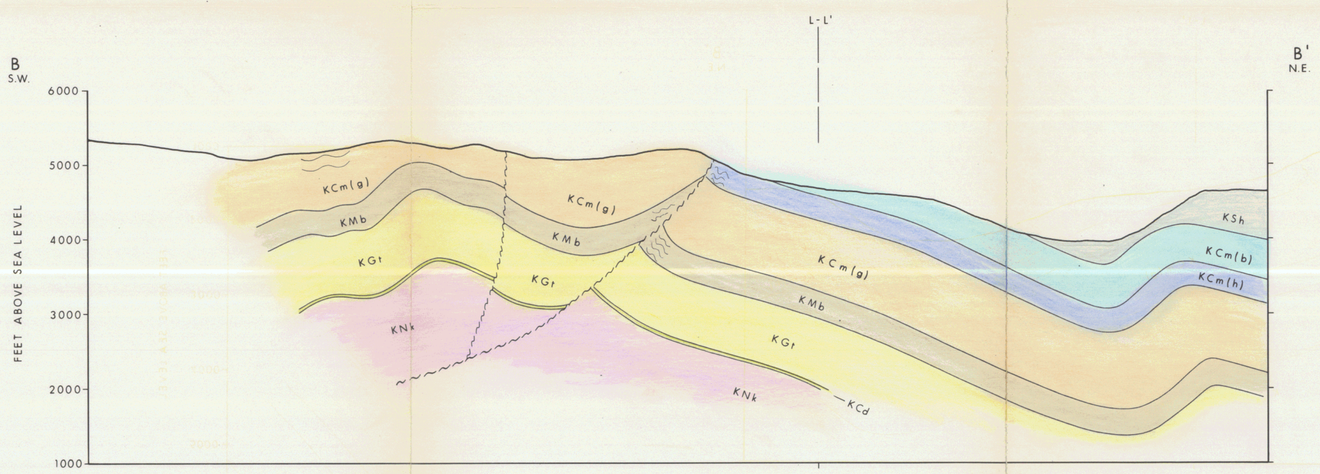
Re - Quintette 174(2).C. ~~74(3)A~~

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

WOLVERINE
CROSS SECTION M-M'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75 - 0552 - R01	





- Sandstone
- Conglomerate
- Shale
- Mudstone
- Siltstone

CRETACEOUS

- KSh — Shaftesbury formation
- KCm(b) — Commotion formation (Boulder Creek member)
- KCm(h) — Commotion formation (Hullcross member)
- KCm(g) — Commotion formation (Gates member)
- KMb — Moosebar formation
- KGt — Gething formation
- KCd — Cadomin formation
- KNk — Nikanassin formation

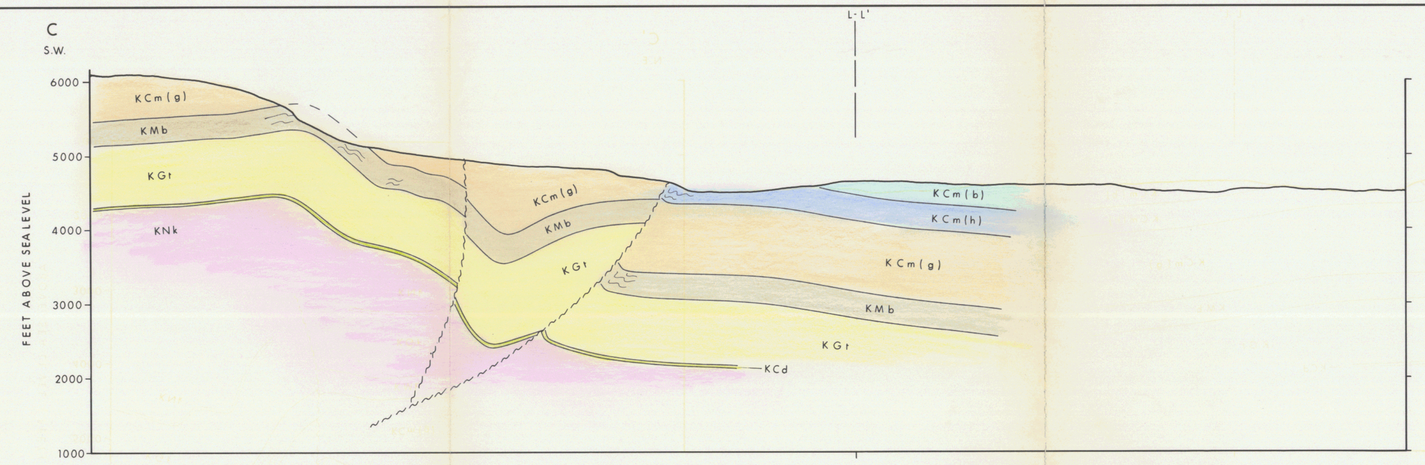
606

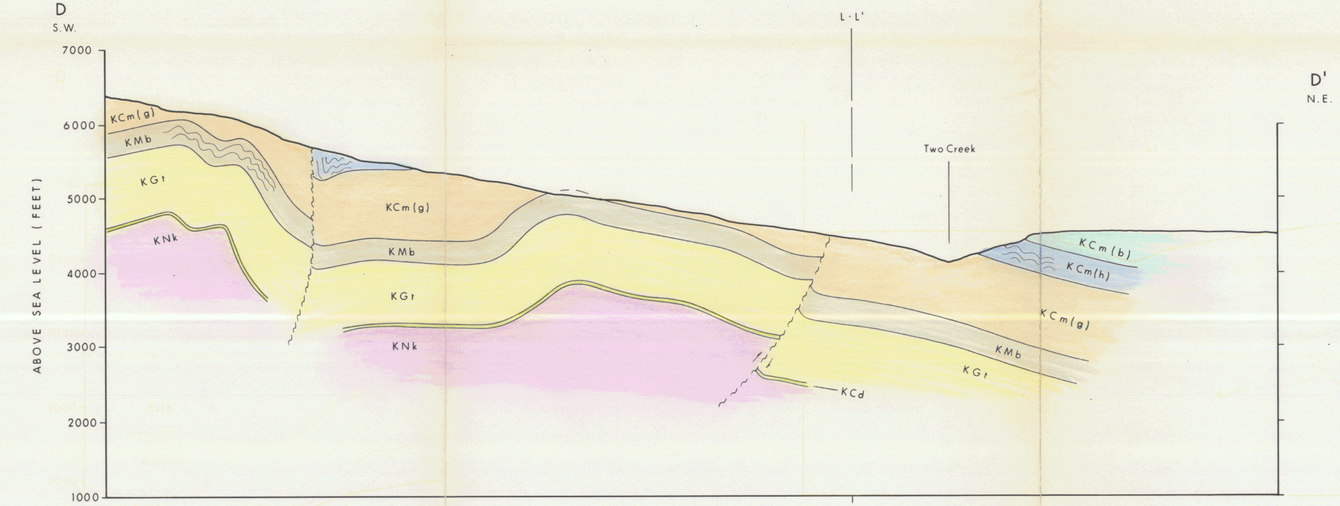
PR - Quintette 74(2).C.

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

WOLVERINE
CROSS SECTIONS A-A' & B-B'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75-0552-R01	





Sandstone
Conglomerate
Shale
Mudstone
Siltstone

CRETACEOUS

- KSh — Shaftesbury formation
- KCm(b) — Commotion formation (Boulder Creek member)
- KCm(h) — Commotion formation (Hullcross member)
- KCm(g) — Commotion formation (Gates member)
- KMb — Moosebar formation
- KGt — Gething formation
- KCd — Cadomin formation
- KNk — Nikanassin formation

606

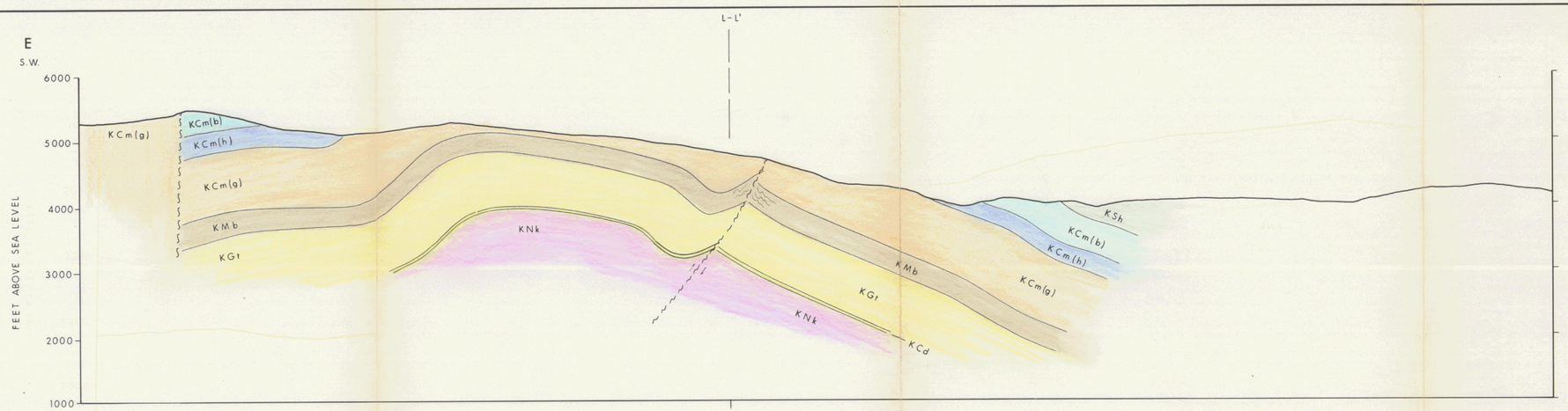
Re- Quintette 74(2)C.

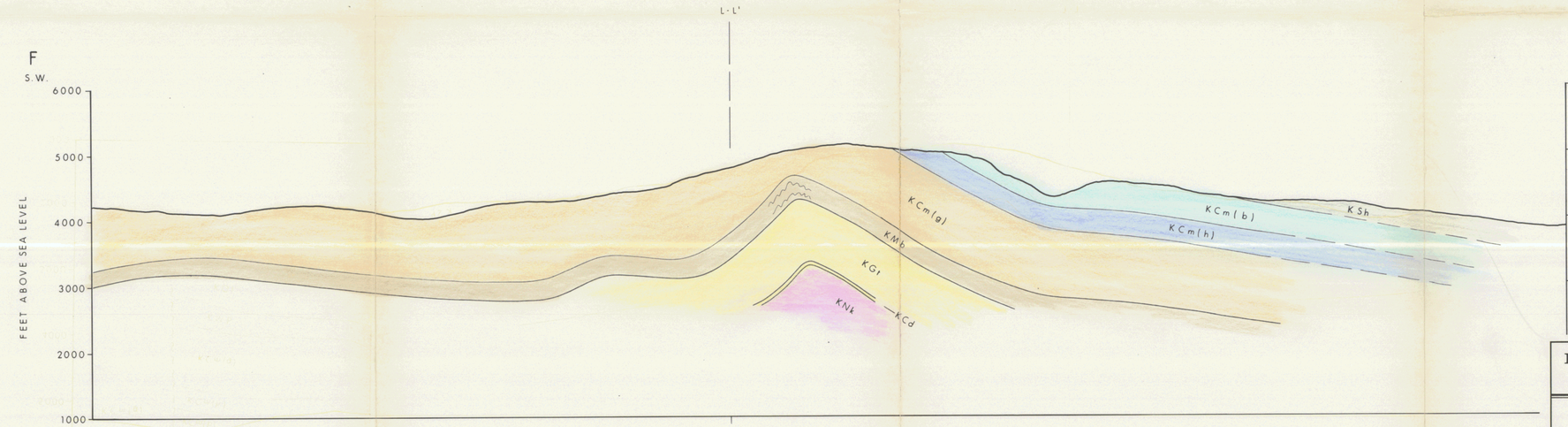
DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

2631A

WOLVERINE
CROSS SECTIONS C-C' & D-D'

DRAWN BY: ~~E. Toth~~	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75 - 0552 - R01	





Sandstone
Conglomerate
Shale
Mudstone
Siltstone

CRETACEOUS

- KSh — Shaftesbury formation
- KCm(b) — Commotion formation (Boulder Creek member)
- KCm(h) — Commotion formation (Hullcross member)
- KCm(g) — Commotion formation (Gates member)
- KMb — Moosebar formation
- KGt — Gething formation
- KCd — Cadomin formation
- KNk — Nikanassin formation

606

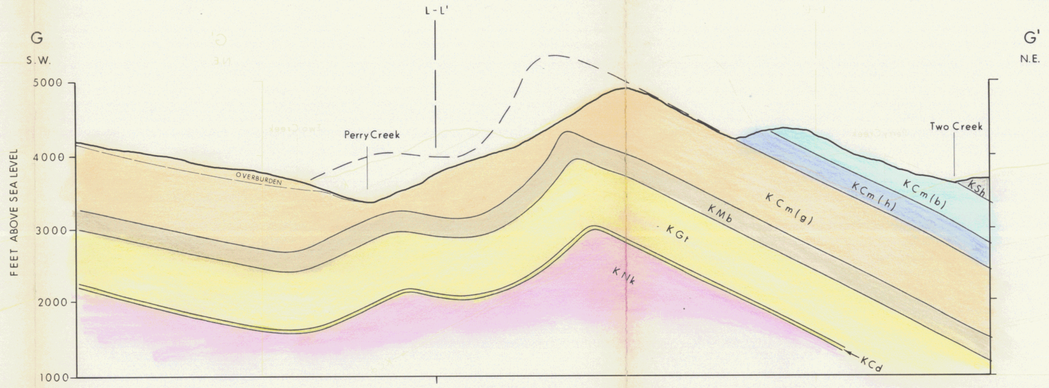
PR - QUINTETTE 74G2,C

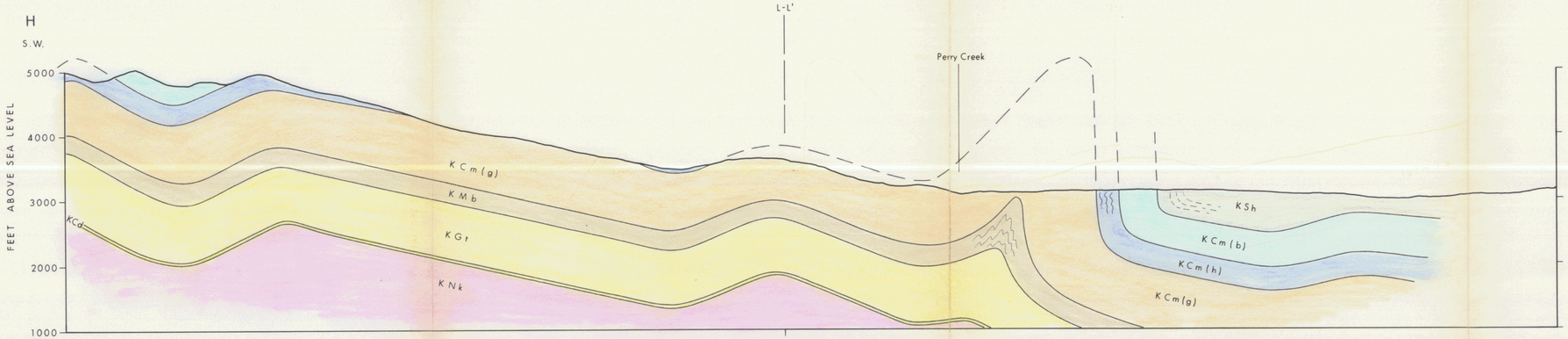
DENISON MINES LIMITED
(COAL DIVISION)
CALGARY · ALBERTA

74(2)A

WOLVERINE
CROSS SECTIONS E·E' & F·F'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75-0552-R01	





Sandstone
Conglomerate
Shale
Mudstone
Siltstone

CRETACEOUS

- KSh Shaftesbury formation
- KCm(b) Commotion formation (Boulder Creek member)
- KCm(h) Commotion formation (Hullcross member)
- KCm(g) Commotion formation (Gates member)
- KMb Moosebar formation
- KGr Gething formation
- KCd Cadomin formation
- KNk Nikanassin formation

606

RE- QUINTETTE 74(2) C.

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

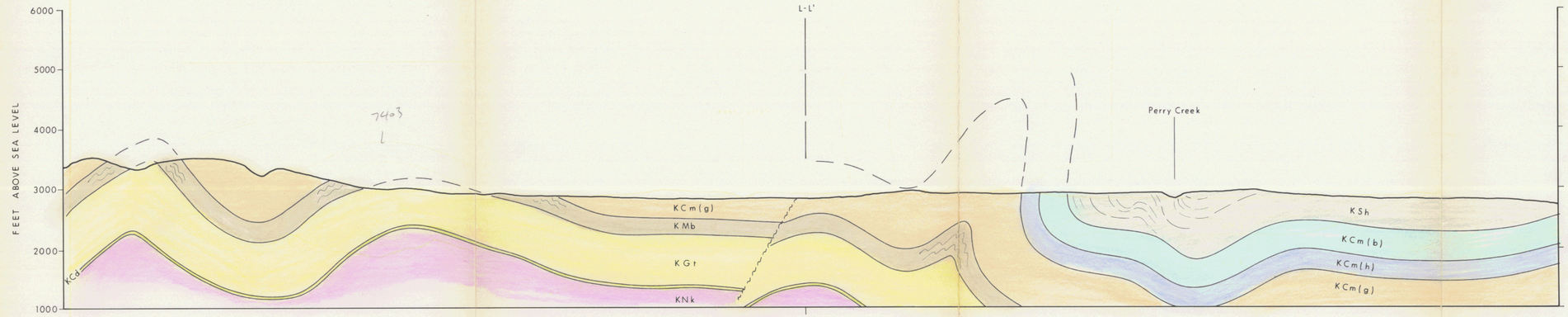
~~74(4)~~

WOLVERINE
CROSS SECTIONS G-G' & H-H'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75-0552-R01	

I

S.W.

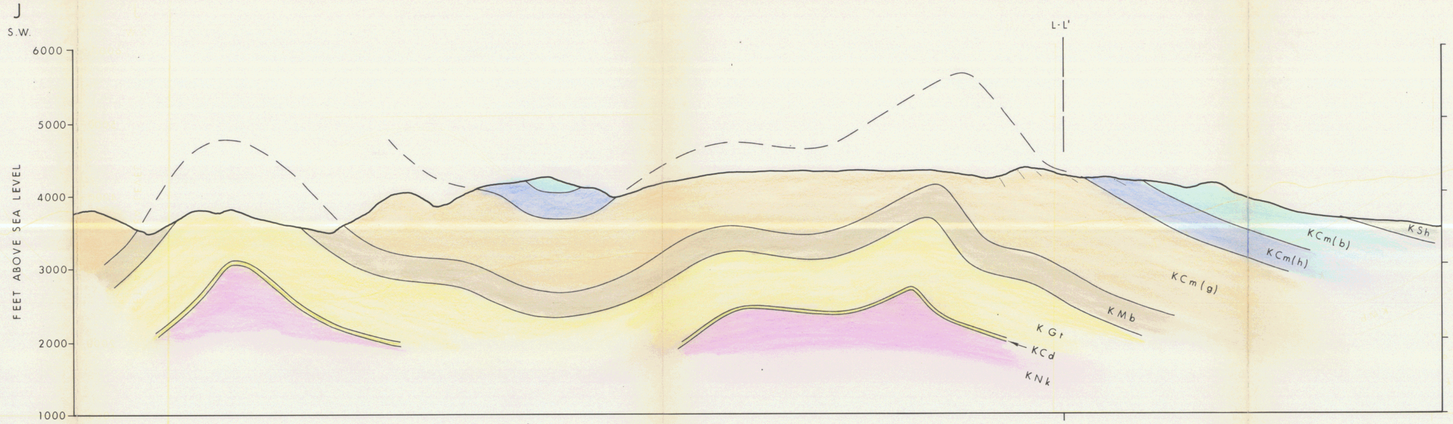


I'

N.E.

J

S.W.



J'

N.E.

Sandstone

Conglomerate

Shale

Mudstone

Siltstone

CRETACEOUS

KSh Shaftesbury formation

KCm(b) Commotion formation (Boulder Creek member)

KCm(h) Commotion formation (Hullcross member)

KCm(g) Commotion formation (Gates member)

KMb Moosebar formation

KGt Gething formation

KCd Cadomin formation

KNk Nikanassin formation

606

PR - QUINTETTE 74(2)C.

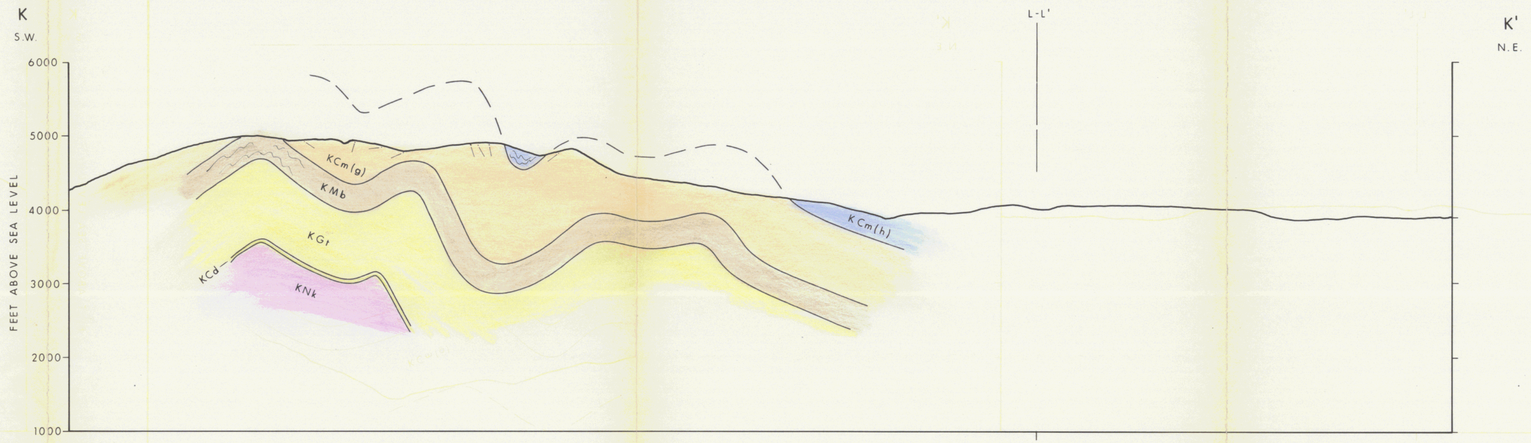
DENISON MINES LIMITED
(COAL DIVISION)
CALGARY · ALBERTA

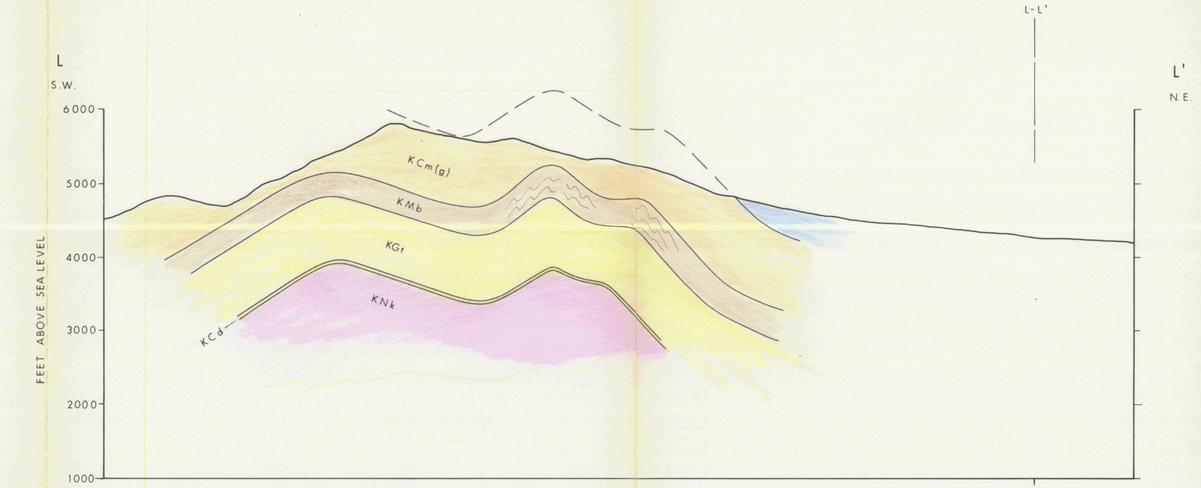
~~74(2)A~~

WOLVERINE

CROSS SECTIONS I-I' & J-J'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75-0552-R01	





CRETACEOUS

- KSb — Shaftesbury formation
- KCm(b) — Commotion formation (Boulder Creek member)
- KCm(h) — Commotion formation (Hullcross member)
- KCm(g) — Commotion formation (Gates member)
- KMb — Moosebar formation
- KGt — Gething formation
- KCd — Cadomin formation
- KNk — Nikanassin formation

606

PR-Quintette 74(2)C.

- Sandstone
- Conglomerate
- Shale
- Mudstone
- Siltstone

DENISON MINES LIMITED
(COAL DIVISION)
CALGARY ALBERTA

~~74B-1~~

WOLVERINE
CROSS SECTIONS K-K' & L-L'

DRAWN BY: E. Toth	DATE: Jan. '75	SCALE: 1" = 1000'
APPROVED BY:	DRAWING NO: WLVR 75-0552-R01	

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

Re Gulf Strathmore 74-31-C

FILE NO.

COMPANY BENSON MINES LIMITED

WELL GR-74-02

FIELD WILDCAT

LOCATION 606

LSD SEC TWP RGE W M

Permanent Datum: GROUND LEVEL Elev. 1.5

Log Measured from: RIG FLOOR 1.5 Ft. Above Perm. Datum

Well Depths Measured from: RIG FLOOR

K.B. CSG G.L.

Other Services: DENSILOG

Recorded By	PETERSON	Run No.	ONE
Witnessed By	JOHNSON	Date	25 OCTOBER 1974
		First Reading	406
		Last Reading	000
		Fastest Logged	406
		Depth Reached	407
		Depth Driller	407
		Casing Rake	
		Casing Driller	
		Logging Unit	ALBERTAWIDE
		Logging Engr.	2131 PETERSON
		Mch. Open.	HRS
Rm @ °F			
		Operating Time	2 HOURS
		Truck No.	35

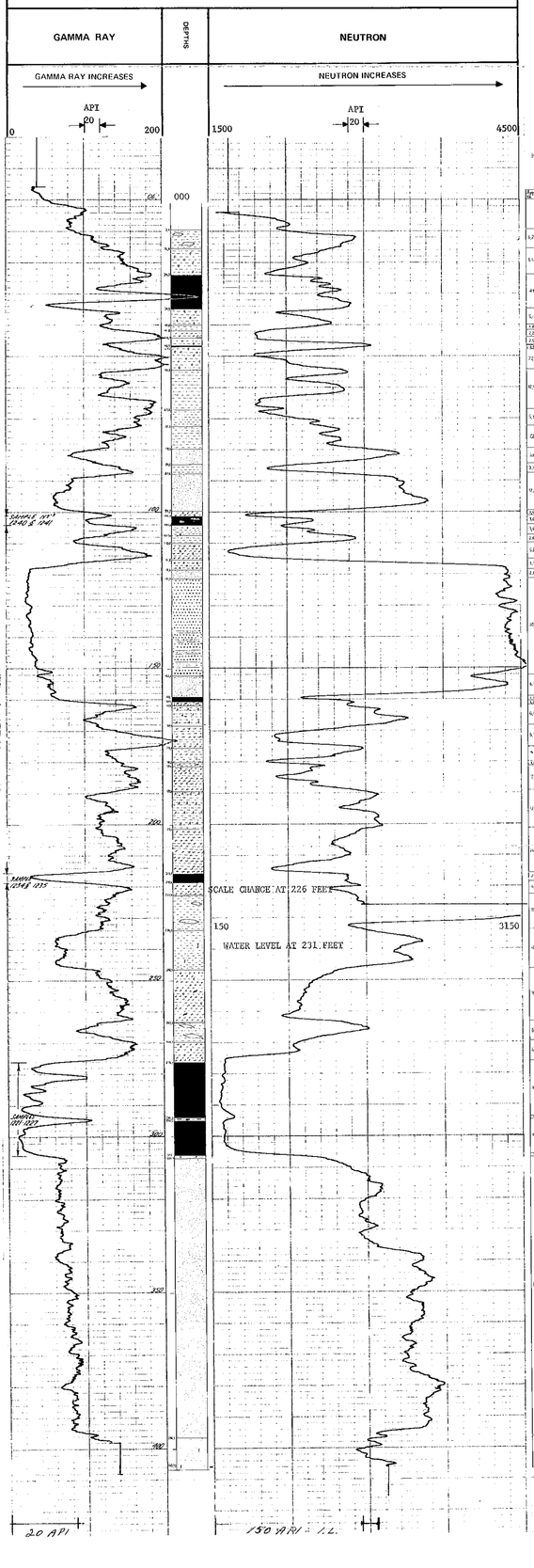
EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 11/16	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 11/16
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV
1	000	226	12	3	500	OL	20	3	1000	10L	150
	226	406	12	3	500	OL	20	3	1000	1L	150

REMARKS SPERRY SUN READINGS -AT 250 FEET - INCLINATION 4.5° OBSERVED DIRECTION N.E.-20°
-AT 400 FEET - INCLINATION 6.8° OBSERVED DIRECTION N.E.-18°



Holy QWD - 7402

Description

Sloped

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

File No.
Sec.
Twp.
Rge.
W

Company NORTHERN HYDRO, LIMITED

Well No. KDH-74-01

Location

Field SOUTHWATER

Province BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev.
Log Measured From K.B. 4.2 Ft. Above Perm. Datum
Drilling Measured From G.L.

K.B.
D.F.
G.L.

Other Services
BDTS

606

Rig No. 19
Date 6DEC, 1974
Run No. ONE
Depth-Driller 771
Depth-Logger 772
Bottom Logged Interval 771
Top Logged Interval SURFACE
Type Fluid in Hole WATER
Salinity, PPM Cl 0
Density lb/gal
Level FULL
Max. Rec. Temp. deg. F
Operating Rig Time
Recorded By PERRYMAN
Witnessed By GORDEY

Operating Time 2 HOURS
Truck No. 35

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 11/16	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 11/16
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.85 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	GAMMA RAY API G. R. UNITS PER LOG DIV.	NEUTRON T. C. SEC.	NEUTRON SENS SETTINGS	NEUTRON ZERO DIV. L OR R	NEUTRON API N. UNITS PER LOG DIV.
1	900	771	12	3	500	OL	20	3	1000	11	150

REMARKS

GAMMA RAY

DEPTHS

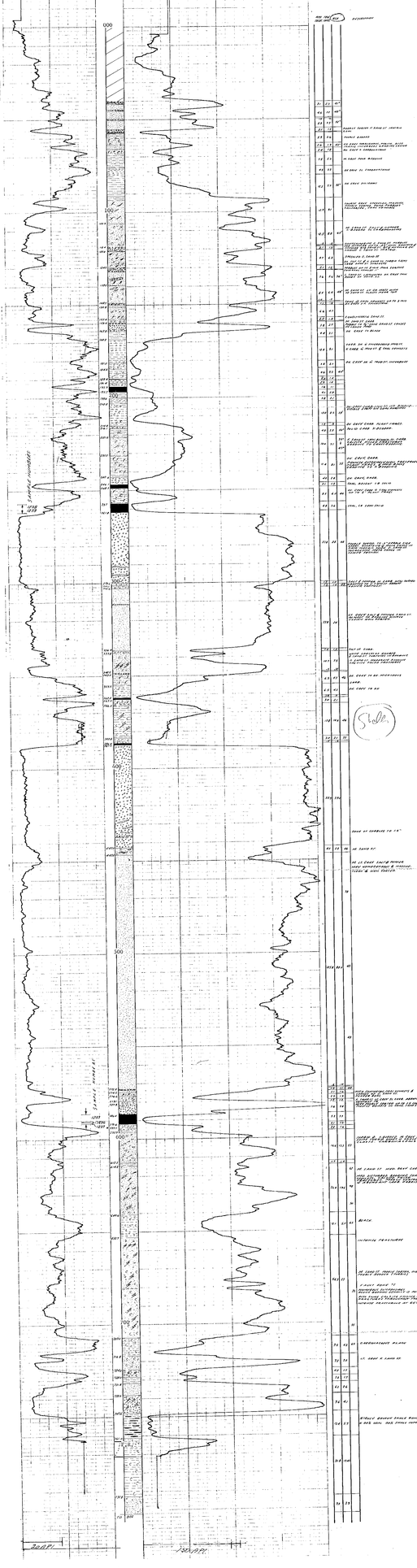
NEUTRON

GAMMA RAY INCREASES

API 0 20 200

NEUTRON INCREASES

API 150 150



ROKE

SIDEWALL DFN/SLOG

FILE NO.

LSD
SEC
TWP
RGE
W

COMPANY OIL ENTERPRISES LTD. CALGARY, ALBERTA

WELL 606

LOCATION

FIELD WOKENDEN

PROVINCE SASKATCHEWAN

Permanent Datum: GROUND LEVEL Elev.: 0
Log Measured from: KELLY BUSHING 8 Ft. Above Perm. Datum
Drilling Measured from: KELLY BUSHING

Elev.: K.B.	1775
D.F.	
G.L.	1767

Other Services: CDS

Run No.	ONE
Date	OCTOBER 1971
Depth-Driller	769
Depth-Logger	769
Bottom Logged Interval	600
Top Logged Interval	100
Casing-Driller	7" @ 172
Casing-Logger	
Bit Size	6"
Type Fluid in Hole	WATER
Dens. Visc.	
pH Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Source of Rmf and Rmc	
Rm @ BHT	
Time Since Circ.	4 HOURS
Max. Rec. Temp.	95
Equip. Location	
Recorded By	
Witnessed By	

Operating Time
Truck No. 35

Recorded By: TREFFERSON
Witnessed By: CONNELLY

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN.	T.C. SECS.	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	000	769	10					3	1000	268	44.23

REMARKS DENSITY TOOL SERIAL NO 128

DEPTHS

CALIPER
(DIAMETER — INCHES)

GAMMA RAY
API

BULK DENSITY
(GRAMS/CC)

000
100
200
300
400
500
600
700

Jefferson Energy

Jefferson Energy

7.8

Re-Runnette 74/13.IC

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SIDEWALL DENSILOG
CALIPER

FILE NO. 606

COMPANY DIVISION MINES LIMITED

WELL (QD-74-02)

LOCATION

FIELD

PROVINCE BRITISH COLUMBIA

LSD SEC TWP RGE W ____ M

Permanent Datum GROUND LEVEL Elev.

Log Measured from RIG FLOOR ft. Above Perm. Datum 11.5

Well Depths Measured from RIG FLOOR

K.B.

C.S.G.

G.L.

Other Services GRN

Run. No.	ONE
Date	25 OCTOBER 1974
First Reading	404
Last Reading	000
Footage Logged	404
Depth Reached	407
Depth Driller	407
Casing Driller	
Casing Logger	
Fluid Type	
Liquid Level	
Max. Temp.	
Min. Diam.	HQ
Operating Time	3 HOURS
Truck No.	35

Recorded By PETERSON

Witnessed By JOHNSON

GENERAL

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN
1	000	404	10

GAMMA RAY

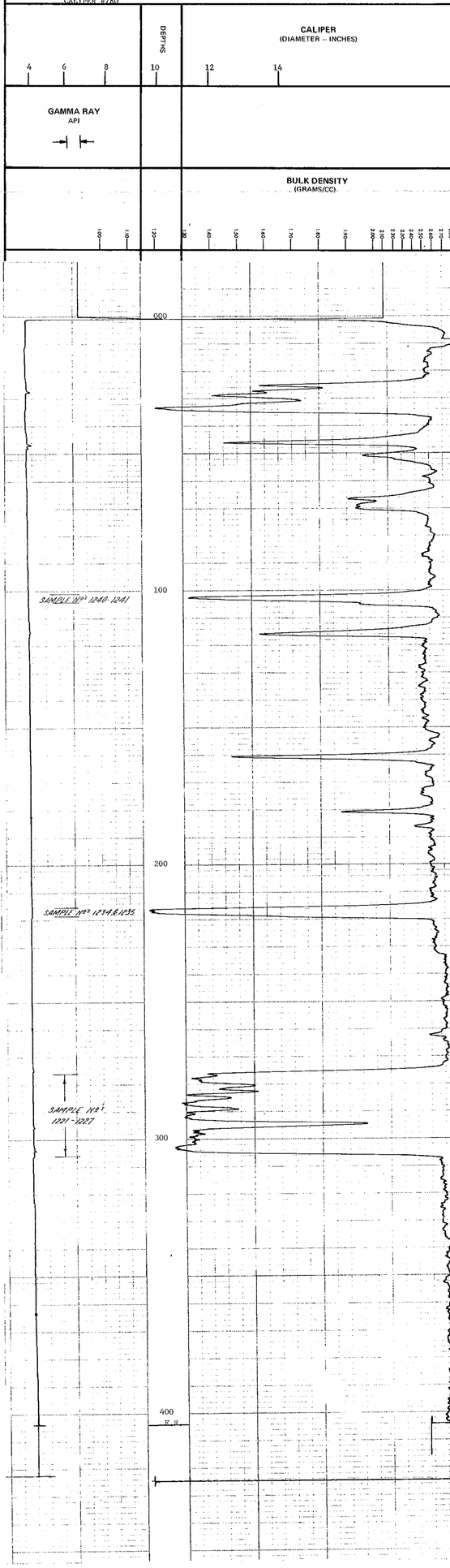
T.C. SEC.	SENS SETTINGS	ZERO DIV.I. OR R	API G.R. UNITS PER LOG DIV.

SIDEWALL DENSILOG

T.C. SEC.	SENS SETTINGS	ZERO DIV.I. OR R	CPS/ DIV
3	1000	2,6R	44,23

REMARKS

DENSITY TOOL SERIAL NO 128
CALIPER #780



ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

PR-QUINTETTE 74(3)C

7403

FILE NO.	606
COMPANY	DENISON MINES LIMITED
WELL	QW-74-03
LOCATION	
LSD / SEC / TWP / RGE	W M
FIELD	WOLVERINE
PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	RIG FLOOR 2 Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR
K.B. / CSG / G.L.	
Other Services:	DENS

Run No.	ONE			
Date	3 NOVEMBER 1974			
First Reading	795			
Last Reading	000			
Footage Logged	795			
Depth Reached	796			
Depth Driller	796			
Casing Roke				
Casing Driller	80			
Fluid Type	AIR/WATER			
Liquid Level	94			
Min. Diam.	HQ			
Rm @ °F				
Operating Time	2 HOURS			
Truck No.	35			

Recorded By PETERSON Witnessed By SMITH

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	000	795	12	3	500	OL	20	3	1000	OL	200

REMARKS SPERRY SUN READINGS - 343° INCLINATION - 59° ANGLE AT 250 FEET
- 347.5° INCLINATION - 63° ANGLE AT 518 FEET
- 343° INCLINATION - 67° ANGLE AT 790 FEET

ROKE

SIDEWALL DENSILOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

606

Recorded By	DEERING
Witnessed By	BOYD

Density Cell Type: 3.5 DENS
Tools No.: 33
Source Rating: 80
Source Type: 80
Source Strength: 275
Depth Reached: 1000
Logged Interval: 1000
Max. Temp.: 125
Date: 3 NOVEMBER 1974
Run No.: ONE
Elev.: K.B. 1732 G.L. 1727
Permanent Datum: GROUND LEVEL
Log Measured from: 10 Ft. Above Perm. Datum
Drilling Measured from: K.B.
Rig: 2
Other Services: CDS
Witness: Dave Bowles

LOCATION: 10-34-49-5
WELL: 10-34-49-5
FIELD: WAYNESIDE
PROVINCE: SASKATCHEWAN
COUNTY: MOOSE JAW
LSD: 10
SEC: 34
TWP: 49
RGE: 5
W of 2nd Mer.
FILE NO.:

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTH FROM	DEPTH TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIVS. OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIVS. OR R	CPS/ DIV
1	000	993	10					3	1000	2.68	44.23

REMARKS

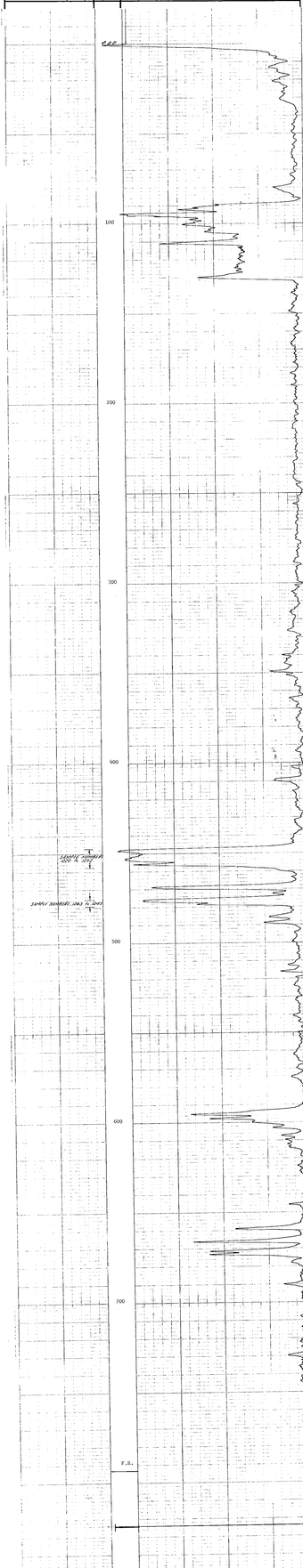
DENSITY TOOL SERIAL NO 128

CALIPER
(DIAMETER – INCHES)

DEPTHS

GAMMA RAY
API

BULK DENSITY
(GRAMS/CC)



ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.

LOG TYPE

RUN NO.

MADE

M

COMPANY DENTON FORES LIMITED

WELL 100-7-101

LOCATION

FIELD WORSLEY

PROVINCE BRITISH COLUMBIA

Other Services: DIL, BHC, CDS

Permanent Datum: GROUND LEVEL Elev.: K.B. 1145 ft. Above Perm. Datum

Log Measured From: KELLY BUSHING 5 Ft. Above Perm. Datum

Drilling Measured From: KELLY BUSHING

Rec. No.

Date: 13 OCTOBER 1974

Depth Driller: 1000

Depth Logger: 1000

Bottom Logged Interval: 769

Top Logged Interval: 175

Casing Size: 7"

Casing Depth: 175

Bit Size: 6 1/4"

Fluid Type: WATER

Density: 8.8

Viscosity: 30

Source of Sample: FLOWLINE

Rm @ Meas. Temp.: .8 @ 70°F

Rmf @ Meas. Temp.: .7 @ 70°F

Rmc @ Meas. Temp.: .9 @ 70°F

Source: Rmf: MEASURED Rmc: MEASURED

Rm @ BHT: .5 @ 120°F

Time Since Circ.: 4 HRS

Max. Rec. Temp.: 120°F

Equip. No. & Location: 3306 KAMLOOPS

Recorded By: PETERSON

Witnessed By: GORDEY

606

GENERAL RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	GAMMA RAY T.C. SEC.	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV'S. OR R	GAMMA RAY API (U.S. UNITS PER LOG DIV.	SIDEWALL DENSILOG T.C. SEC.	SIDEWALL DENSILOG SENS SETTINGS	SIDEWALL DENSILOG ZERO DIV'S. OR R	SIDEWALL DENSILOG CPS/DIV
1	000	769	10					3	1000	26R	44.23

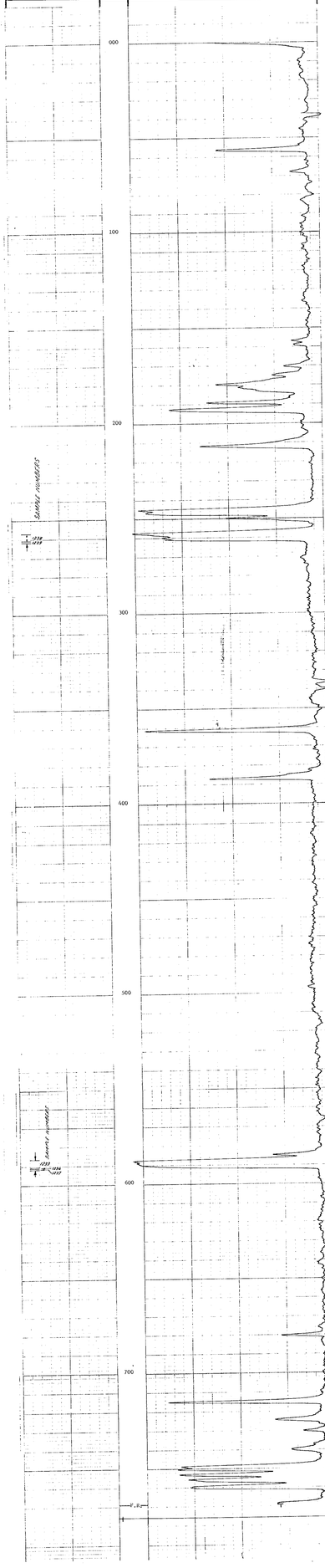
REMARKS DENSITY TOOL SERIAL NO 128

DEPTH

CALIPER (DIAMETER – INCHES)

GAMMA RAY API

BULK DENSITY (GRAMS/CC)



Wireline 7491

PL-QUINTETTE
74(3)C
(dup. copy)

606

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

COMPANY DEMISE PETES LIMITED

WELL QUD-74-01

LOCATION

FIELD LOWERRE

PROVINCE SASKATCHEWAN

FILE NO

LSD SEC TWP RGE W ... M

Permanent Datum GROUND LEVEL Elev.

Log Measured from RIG FLOOR 3.5 Ft. Above Perm. Datum

Drilling Measured from RIG FLOOR

K.B. DENS

C.S.G.

G.L.

Other Services

Recorded By TEETERSON

Witnessed By GODSKILEY

Run No. ONE

Date 19 OCTOBER 1974

Depth-Driller 771

Depth-Logger 772

Bottom Logged 771

Top Logged 000

Casing-Driller

Casing-Logger

Bit Size

Type Fluid in Hole WATER

Density

Level FULL

Max. Rec. Temp. 35

Est. Cement Top

Equip. No. & Location

Rec. No.

Circ. Time 2 HOURS

Max. Rec. Temp.

Equip. No. & Location

Recorded By

Witnessed By

CANADA WIDE NEUTRON LOG

EQUIPMENT DATA

GAMMA RAY	ONE
RUN NO.	
TOOL MODEL NO.	
DIAMETER	1 11/16
DETECTOR MODEL NO.	
TYPE	GEIGER
LENGTH	18 INCH
DISTANCE TO N. SOURCE	8.55 FT.

GENERAL	
TRUCK TRUCK NO.	
TRUCK EQUIPMENT TRUCK NO.	15
TOOL SERIAL NO.	177

NEUTRON	ONE
RUN NO.	
LOG TYPE	NEUTRON/NEUTRON
TOOL MODEL NO.	
DIAMETER	1 11/16
DETECTOR MODEL NO.	
TYPE	PROPORTIONAL
LENGTH	6 INCH
SOURCE MODEL NO.	MRC-N-SS-W
SERIAL NO.	50
TYPE	Amlo
STRENGTH	5 CURIES

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	GAMMA RAY T.C. SEC.	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	GAMMA RAY API G. R. UNITS PER LOG DIV.	NEUTRON T.C. SEC.	NEUTRON SENS SETTINGS	NEUTRON ZERO DIV. L OR R	NEUTRON API N. UNITS PER LOG DIV.
1	000	771	12	3	500	OL	20	3	1000	1L	150

REMARKS

GAMMA RAY | DEPTHS | NEUTRON

GAMMA RAY INCREASES

API 20

0 200

NEUTRON INCREASES

API 150

150 3150

SAMPLE NUMBERS

20 API

150 API

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

FILE NO. 606

LSD	
SEC	
TWP	
RGE	
W___M	
COMPANY	DENISON MINES LIMITED
WELL	QWD-74-01
LOCATION	
FIELD	WOLVERINE
PROVINCE	BRITISH COLUMBIA
Permanent Datum	GROUND LEVEL Elev. ___
Log Measured from	RIG FLOOR 1.5 Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR
Other Services:	DENS
K.B.	
CSG	
G.L.	

Run. No.	ONE			
Date	19 OCTOBER 1974			
First Reading	771			
Last Reading	000			
Footage Logged	771			
Depth Reached	772			
Depth Driller				
Casing Roke				
Casing Driller				
Fluid Type	WATER			
Liquid Level	0			
Min. Diam.	HQ			
Rm @ °F				
Operating Time	2 HOURS			
Truck No.	35			
Recorded By	PETERSON	Witnessed By	GORMLEY	

PC-QUINTETTE 74(3)C (dup. copy)

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	000	771	12	3	500	0L	20	3	1000	1L	150

REMARKS

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
0 API →20← 200		150 API →150← 3150

7401

PR-QUINTETTE 74(S)C
(dup 7405)

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

SUITE 304, 1324 FIFTH AVE. S.W.

FILE NO.

SEC. TWP. RGE. W.

COMPANY: PRESIDENT STATES EXPLORER

WELL: 6-34-61

606

LOCATION:

FIELD: WILDCAT

PERMANENT DATUM: GROUND LEVEL

ELEV. 3192 FT.

LOG MEASURED FROM: KB 12 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM: KELLY BUSHING

ELEV. K.B. 3204 FT. D.F. G.L. 3192 FT.

Other Services: DIPLOG, BHC SONIC

Rec. No. 1

Type Log DUAL INDUCTION SFL

Depth Driller 7725

Depth Logger 7723

Bottom Logged Interval 7700

Top Logged Interval 3000

Casing Driller 9 5/8 @ 3000

Casing Logger

Bit Size 8 1/2

Type Fluid in Hole GEL CHEM

Dens. Visc. 10.0 50

pH Fluid Loss 9.5 6.0

Source of Sample CIRC.

Rm @ Meas. Temp. 0.67 @ 70°F

Rmf @ Meas. Temp. 0.50 @ 70°F

Rmc @ Meas. Temp. 1.2 @ 70°F

Source of Rmf & Rmc CALC. CALC.

Rm @ BHT 0.30 @ 150°F

Time Since Circ. 10 HOURS

Max. Rec. Temp. Deg. F. 150°F

Equip. No. & Location 606 3704

Recorded By PETERSON

Witnessed By GORDLEY

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		TOOL TYPE	NEUTRON/NEUTRON
DIAMETER	1 11/16	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 11/16
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.	35	SPACING	12 INCH
INSTRUMENT TRUCK NO.		TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTH FROM	DEPTH TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	NEUTRON ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	000	771	12	3	500	01	20	3	1000	11	150

REMARKS

GAMMA RAY — DEPTH — NEUTRON

GAMMA RAY INCREASES

NEUTRON INCREASES

API

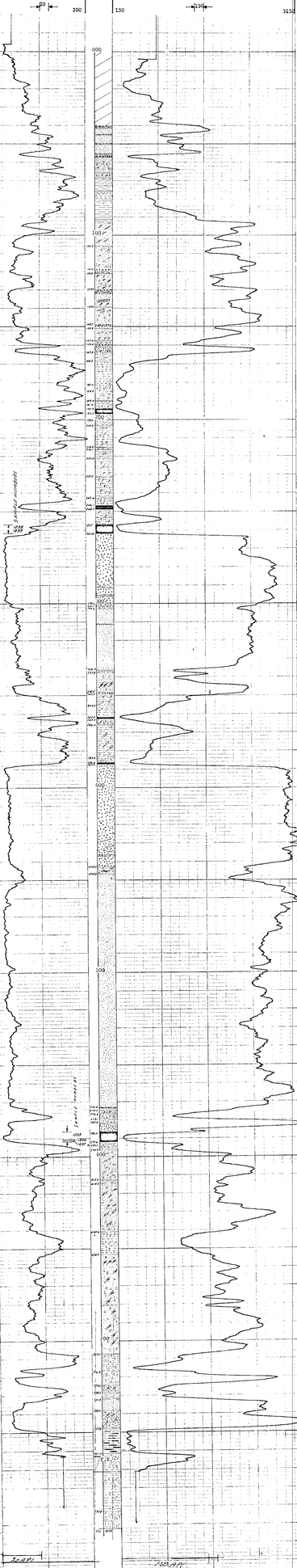
0 — 100 — 200

API

150 — 100 — 50

2 soap

1 soap



PR-QUINTETTE 74(3)C (dup. copy)

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.	COMPANY DENISON MINES LIMITED
LSD	
SEC	WELL QW-74-02
TWP	
RGE	LOCATION
W M	
	FIELD
	PROVINCE BRITISH COLUMBIA

606

Other Services: GRN

Permanent Datum GROUND LEVEL Elev.

Log Measured from RIG FLOOR 1.5 Ft. Above Perm. Datum

Well Depths Measured from RIG FLOOR

K.B.

CSG

G.L.

Run. No.	ONE		
Date	25 OCTOBER 1974		
First Reading	404		
Last Reading	000		
Footage Logged	404		
Depth Reached	407		
Depth Driller	407		
Casing Roke			
Casing Driller			
Fluid Type			
Liquid Level			
Min. Diam.	HQ		
Operating Time	3 HOURS		
Truck No.	35		
Recorded By PETERSON		Witnessed By JOHNSON	

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/ DIV
1	000	404	10					3	1000	2,6R	44,23

REMARKS

DENSITY TOOL SERIAL NO 128

CALIPER #780

DEPTHS

CALIPER
(DIAMETER – INCHES)
4 6 8 10 12 14

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

000

100

SAMPLE Nos 1240-1241

200

SAMPLE Nos 1234 & 1235

300

SAMPLE Nos 1221-1227

WOLVERINE 7402 PR-QUINTETTE 7483C duplicate

WOLVERINE 7402
SEC 24 TWP 74 RGE 02 W6M
PEACE RIVER DISTRICT

YOKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.

COMPANY NELSON MINES LIMITED

WELL NO-74-02

LOCATION WOLVERINE

FIELD

PROVINCE BRITISH COLUMBIA

Other Services: DENS-CAL

K.B.
CSG
G.L.

Elev. Perm. Datum: GROUND LEVEL
Elev. Log Meas. from: RIG FLOOR
1.5 ft. Above Perm. Datum

Date: 25 OCTOBER 1974
Run No.: ONE
Depth-Driller: 406
Depth-Logger: 406
Bottom Log Interval: 406
Top Log Interval: 000
Casing-Driller: 4½ @ 406
Casing-Logger: 4½ @ 406
Bit Size: 3⅞
Type Fluid in Hole: FRESH WATER
Density: 8.5
Viscosity: 55
pH: 8.0
Fluid Loss: 12.0
Source of Sample: FLOWLINE
Rm @ Meas. Temp: .25 @ 60°F
Rmf @ Meas. Temp: .20 @ 60°F
Rmc @ Meas. Temp: .30 @ 60°F
Source of Rmf & Rmc: CALC
Rm @ BHT: .18 @ 100°F
Time Since Circ.: 5 HRS
Max. Rec. Temp.: 100°F
Equip. No. & Location: 606 DAWSON CREEK
Recorded By: JOHNSON
Witnessed By: PETERSON

606

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 11/16	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 11/16
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.65 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	000	226	12	3	500	0L	20	3	1000	10L	150
	226	406	12	3	500	0L	20	3	1000	1L	150

REMARKS SPERRY SUN READINGS -AT 250 FEET INCLINATION 4.5° OBSERVED DIRECTION N.E.-30°
-AT 400 FEET - INCLINATION 6.8° OBSERVED DIRECTION N.E.-18°

7402

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO. 606

LSD
SEC
TWP
RGE
M.

COMPANY BENSON MINES LIMITED

WELL BN-74-02

LOCATION

FIELD

PROVINCE BRITISH COLUMBIA

Permanent Datum GROUND LEVEL Elev. 0

Log Measured from KELLY BUSHING 1.5 Ft. Above Perm. Datum

Well Depth Measured from RTD FROM DP

Other Services: GRN

K.B.
D.F.
G.L.

Run No.	ONE
Date	25 SEPTEMBER 1974
First Reading	404
Last Reading	000
Footage Logged	404
Depth Reached	407
Depth Driller	407
Casing Rote	
Casing Driller	
Fluid Type	
Liquid Level	
Max. Diam.	BQ
Operating Time	3 HOURS
Truck No.	35

Witnessed By JOHNSON

Recorded By PETERSON

606

GENERAL				GAMMA RAY				SIDEWALL DENSILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	API G.R. UNITS PER LOG DIV.	*T.C. SEC.	SENS SETTINGS	ZERO DIV.L OR R	CPS/ DIV
1	000	404	10					3	1000	2.68	44.33

REMARKS

DENSITY TOOL SERIAL NO 128
CALIPER #780

CALIPER
(DIAMETER – INCHES)

4 6 8 10 12 14

DEPTHS

GAMMA RAY
API

BULK DENSITY
(GRAMS/CC)

000

100

SAMPLE Nos 1240-1241

200

SAMPLE Nos 1234 & 1235

SAMPLE Nos 1221-1227

300

400

PR-QUINTETTE 74(3)C
(dup copy)

ROKE

GAMMA RAY NEUTRON LOG

OIL ENTERPRISES LTD. CALGARY, ALBERTA

FILE NO.
LSD
SEC
TWP
RGE
W___M

COMPANY DENISON MINES LIMITED
WELL QW-74-02
LOCATION 606
FIELD
PROVINCE BRITISH COLUMBIA

Other Services: DENS-CAL

Permanent Datum GROUND LEVEL Elev.
Log Measured from RIG FLOOR 1.5 Ft. Above Perm. Datum
Well Depths Measured from RIG FLOOR

K.B.
CSG
G.L.

Run No.	ONE
Date	25 OCTOBER 1974
First Reading	406
Last Reading	000
Footage Logged	406
Depth Reached	407
Depth Driller	407
Casing Roke	
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	23
Min. Diam.	HQ
Rm @ °F	
Operating Time	2 HOURS
Truck No.	35

Recorded By PETERSON
Witnessed By JOHNSON

EQUIPMENT DATA

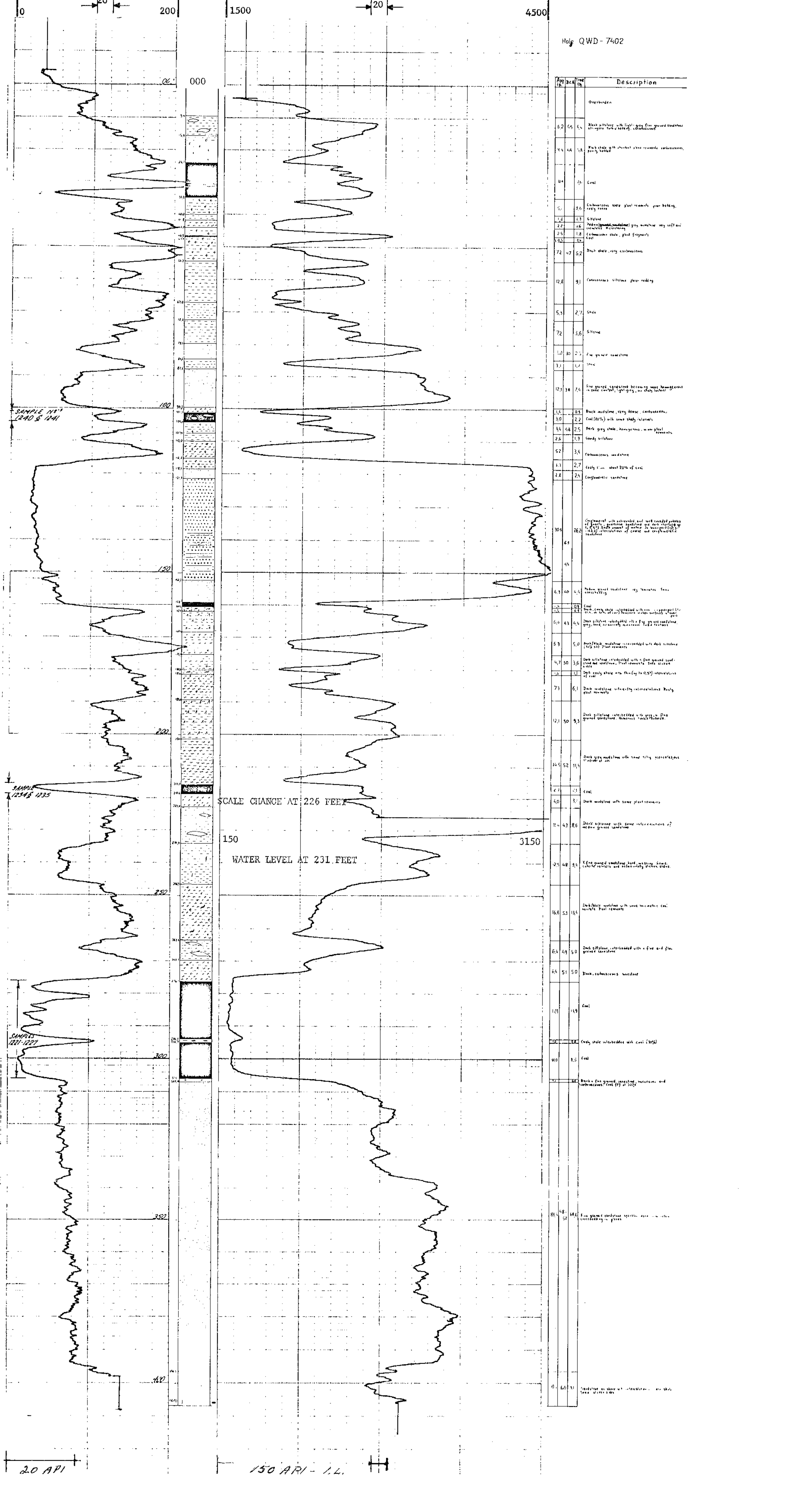
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV
1	000	226	12	3	500	OL	20	3	1000	10L	150
	226	406	12	3	500	OL	20	3	1000	1L	150

REMARKS SPERRY SUN READINGS -AT 250 FEET - INCLINATION 4.5° OBSERVED DIRECTION N.E.-20°
-AT 400 FEET - INCLINATION 6.8° OBSERVED DIRECTION N.E.-18°

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
API 20, 0 – 200		API 20, 1500 – 4500



74-02

ROKE OIL ENTERPRISES LTD. CALGARY, ALBERTA

GAMMA RAY NEUTRON LOG

R-QUINTETTE 74(3)C (dupl. copy)

FILE NO.	
COMPANY	DENISON MINES LIMITED
WELL	QC-74-02
LOCATION	Quintette
FIELD	
PROVINCE	BRITISH COLUMBIA
LSD / SEC / TWP / RGE / W M	
	606
Other Services:	DENS-CAL
Permanent Datum	GROUND LEVEL Elev.
Log Measured from	RIG FLOOR 1.5 Ft. Above Perm. Datum
Well Depths Measured from	RIG FLOOR
K.B. / CSG / G.L.	
Run No.	ONE
Date	25 OCTOBER 1974
First Reading	406
Last Reading	000
Footage Logged	406
Depth Reached	407
Depth Driller	407
Casing Roke	
Casing Driller	
Fluid Type	AIR/WATER
Liquid Level	23
in. Diam.	HQ
Rm @ °F	
Operating Time	2 HOURS
Truck No.	35
Recorded By	PETERSON
Witnessed By	JOHNSON

EQUIPMENT DATA

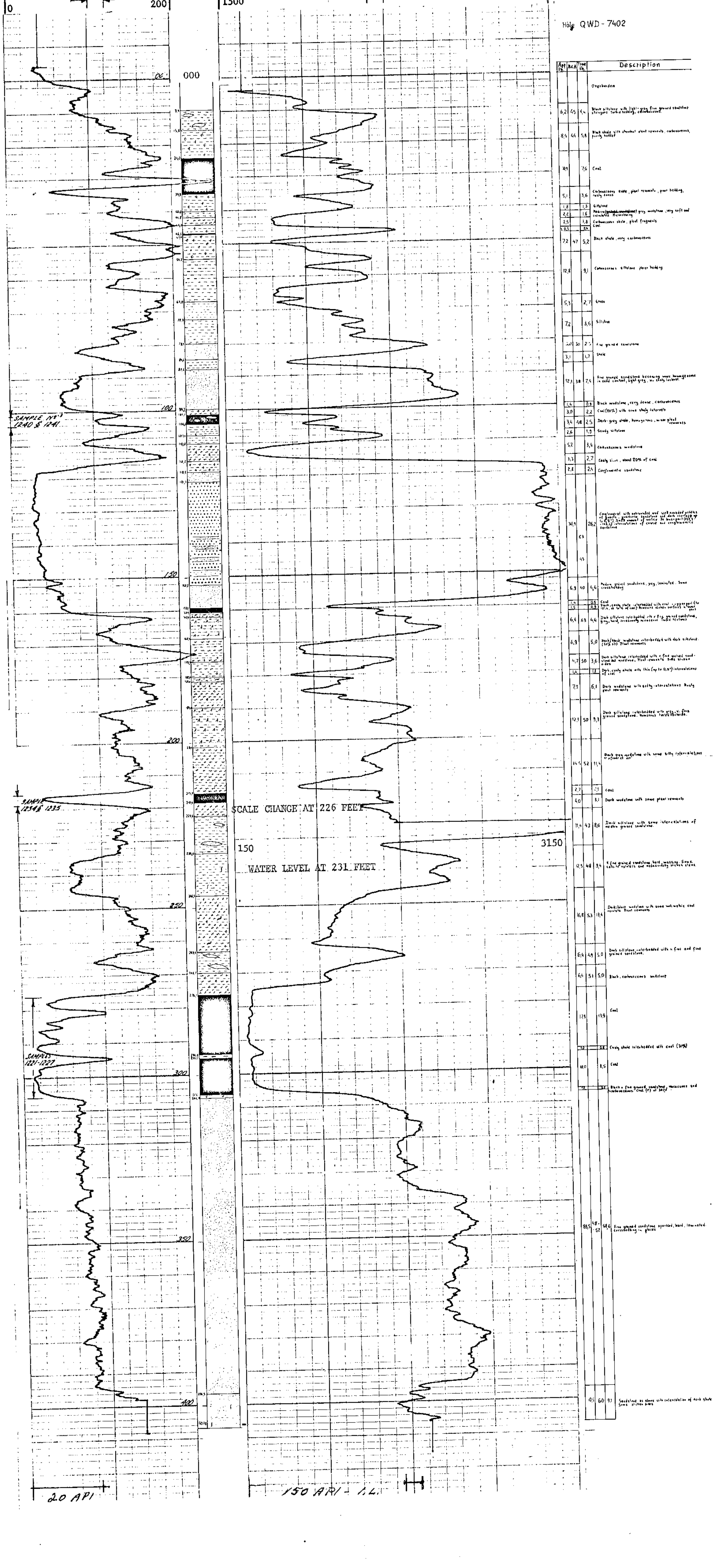
GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	$1\frac{11}{16}$	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	$1\frac{11}{16}$
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
GENERAL		SOURCE MODEL NO.	MRC-N-SS-W
HOIST TRUCK NO.		SERIAL NO.	50
INSTRUMENT TRUCK NO.	35	SPACING	17 INCH
TOOL SERIAL NO.	177	TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	NEUTRON T.C. SEC.	NEUTRON SENS SETTINGS	NEUTRON ZERO DIV. L OR R	API N. UNITS PER LOG DIV
1	000	226	12	3	500	OL	20	3	1000	10L	150
	226	406	12	3	500	OL	20	3	1000	1L	150

REMARKS SPERRY SUN READINGS -AT 250 FEET - INCLINATION 4.5° OBSERVED DIRECTION N.E.-20°
-AT 400 FEET - INCLINATION 6.8° OBSERVED DIRECTION N.E.-18°

GAMMA RAY	DEPTHS	NEUTRON
GAMMA RAY INCREASES →		NEUTRON INCREASES →
0 API 20 200		1500 API 20 4500



Recorded by: SCHLUMBERGER

Witnessed by: GUNN

Location: Other Services	
Permanent Datum: GROUND LEVEL	Elev.: K.B. 2
Log Measured From: KELLY BUSHING	2 Ft. Above Perm. Datum
Drilling Measured From: KELLY BUSHING	D.F.
	G.L.

Date	3 NOVEMBER 1974
Run No.	ONE
Depth-Driller	800
Depth-Logger	795
Bottom Logged Interval	795
Top Logged Interval	0
Casing-Driller	796 @
Casing-Logger	796
Bit Size	7 7/8
Type Fluid in Hole	AERATED
Salinity, PPM Cl	
Density	
Level	FULL
Max. Rec. Temp. Deg. F.	
Equipment No. and Location	
Recorded By	
Witnessed By	

PETROLEUM HOUSE CALGARY, ALBERTA

ROKE OIL ENTERPRISES LTD.

WELL NO. 1 SEC. 26 TWP. 26 RGE. 4 W

COMPANY: ROKE OIL ENTERPRISES LIMITED

WELL: ROKE OIL ET AL

LOCATION: 606

FIELD: WILDWOOD

PROVINCE: SASKATCHEWAN

606

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		LOG TYPE	NEUTRON/NEUTRON
DIAMETER	1 11/16	TOOL MODEL NO.	
DETECTOR MODEL NO.		DIAMETER	1 11/16
TYPE	GEIGER	DETECTOR MODEL NO.	
LENGTH	18 INCH	TYPE	PROPORTIONAL
DISTANCE TO N. SOURCE	8.55 FT.	LENGTH	6 INCH
		SOURCE MODEL NO.	MRC-N-SS-W
GENERAL		SERIAL NO.	50
HOIST TRUCK NO.		SPACING	17 INCH
INSTRUMENT TRUCK NO.	35	TYPE	AmBe
TOOL SERIAL NO.	177	STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON		
RUN NO.	DEPTH FROM	DEPTH TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API G. R. UNITS PER LOG DIV.	T. C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	000	795	12	3	500	OL	20	3	1000	OL	200

REMARKS: STERRY SUN READINGS - 343° INCLINATION = 59° ANGLE AT 230 FEET
- 347.5° INCLINATION = 63° ANGLE AT 518 FEET
- 343° INCLINATION = 62° ANGLE AT 790 FEET

GAMMA RAY — DEPTH — NEUTRON

GAMMA RAY INCREASES

NEUTRON INCREASES

API 0 200

API 0 200 4000

WATER LEVEL AT 94 FEET

CASING SHOE

CASING JOINT

CASING JOINT

200 API

200 API

ROKE

OIL ENTERPRISES LTD CALGARY ALBERTA

FILE NO.

COMPANY BEISEKER HOMES LIMITED

WELL 06-24-43

LOCATION

FIELD

PROVINCE ALBERTA

Permanent Datum: GROUND LEVEL Elev. 3206K

Log Measured From: KELLY BUSHING 10 Ft. Above Perm. Datum

Drilling Measured From: KELLY BUSHING

Elev.: K.B. 3216K D.F. G.L.

Date 3-11-83

Run No. ONE

Depth-Driller 3233

Depth-Logger 3232

Bottom Logged Interval 3230

Top Logged Interval 2796

Casing-Driller 8 5/8" @ 2796K

Casing-Logger

Bit Size 7 7/8"

Type Fluid in Hole GEL CHEM

Density 10.0

Viscosity 50

pH 9.5

Fluid Loss 6.0

Source of Sample CIRC.

R_m @ Meas. Temp. .61 @ 21°C

R_mf @ Meas. Temp. .46 @ 21°C

R_mc @ Meas. Temp. .82 @ 21°C

Source of R_mf & R_mc MEAS.

R_m @ BHT .36 @ 70°C

Time Since Circ. 3 HOURS

Time on Bottom 3 HOURS

Max. Rec. Temp. 70°C

Equip. No. & Location 1306 CSTD

Recorded By PETERSON

Witnessed By CUTTEL

RIGGED UP 1600 HRS 3-11-83

TOOL STUCK @ 1600 HRS

FREED @ 1900 HRS

RIGGED DOWN 2400 HRS

RECEIVED 3-12-83

606

PROVINCETTE (1430) (6.0 cps)

GENERAL			GAMMA RAY				SIDEWALL SONILOG			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED F/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.LOG R	API C.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.LOG R	CPS/ DIV
1	000	793	10					3	1000	2.68	44.23

REMARKS

DENSITY TOOL SERIAL NO 128

DEPTH

CALIPER
(DIAMETER – INCHES)

GAMMA RAY
API

BULK DENSITY
(GRAMS/CC)

100

200

300

400

500

600

700

F.P.

7403

ROKE

OIL ENTERPRISES LTD. CALGARY, ALBERTA

ROOM 800 TERRATOR BLDG

stratigraphic log

re-contractor 7403C (copy)

FILE NO.	
SEC	
TWP	
RGE	
M	
COMPANY	PETROFINA CANADA LIMITED
WELL	00-24-60
LOCATION	
FIELD	WILDFIRE
Permanent Datum	GROUND LEVEL
Log Measured From	KELLY BUSHING
Drilling Measured From	CASING FLANGE
Elev.: K.B.	2
Elev.: D.F.	
Elev.: G.L.	
Date	25 SEPTEMBER 1974
Run No.	ONE
Depth-Driller	795
Depth-Logger	800
Bottom Logged Interval	796
Top Logged Interval	796
Type Fluid in Hole	WATER
Salinity, PPM Cl	
Density	
Level	FULL
Max. Rec. Temp. Deg. F.	80
Equipment No. & Location	24 EDMONTON
Recorded By	265
Witnessed By	

Other Services: CNS, CNL, GL

Permanent Datum: Elev.: K.B. 2 ft. Above Perm. Datum

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO.		TOOL MODEL NO.	NEUTRON/NEUTRON
DIAMETER	1 11/16	DIAMETER	1 11/16
DETECTOR MODEL NO.		DETECTOR MODEL NO.	
TYPE	GEIGER	TYPE	PROPORTIONAL
LENGTH	18 INCH	LENGTH	6 INCH
DISTANCE TO N. SOURCE	8.55 FT.	SOURCE MODEL NO.	MRC-N-SS-W

GENERAL		GENERAL	
HOIST TRUCK NO.		SERIAL NO.	50
INSTRUMENT TRUCK NO.	35	SPACING	17 INCH
TOOL SERIAL NO.	177	TYPE	AmBe
		STRENGTH	3 CURIES

LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	API G. R. UNITS 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	000	795	12	3	500	CL	20	3	1000	CL	200

REMARKS SPERRY SUN READINGS - 343° INCLINATION - 59° ANGLE AT 250 FEET
- 347.5° INCLINATION - 63° ANGLE AT 518 FEET
- 343° INCLINATION - 67° ANGLE AT 790 FEET

GAMMA RAY | DEPTHS | NEUTRON

GAMMA RAY INCREASES

API 0 20 200

NEUTRON INCREASES

API 0 200 4000

WATER LEVEL AT 94 FEET

000
100
200
300
400
500
600
700
800

2 AM

2 AM

~~PR-WOLVERINE 74(4)A~~
PR-QUINTETTE 74(4)C

CONFIDENTIAL

APPENDIX I

1974 WOLVERINE EXPLORATION REPORT

ANALYTICAL RESULTS FROM DRILL HOLE

& TRENCH SAMPLES

Appendix I of this report contains coal quality data, and remains confidential under the terms of the *Coal Act Regulation*, Section 2(1). It has been removed from the public version.

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_251_2004