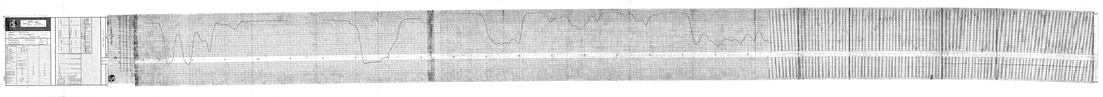
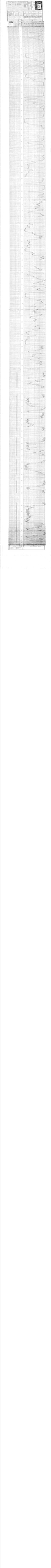
| | | |





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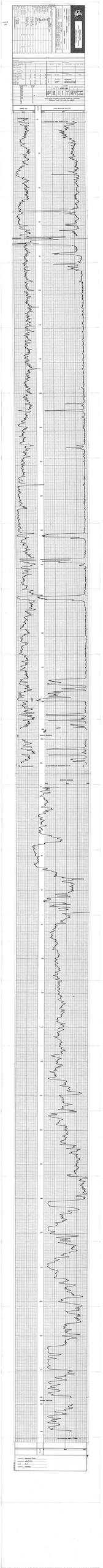

Schlumberger
Well Name
Field
County
State
Date
Run No.
Depth Reference
Log Measured From
Drilling Measured From
Permanent Datum
Elevation
Elevation
Elevation
Elevation
Bottom Log Interval
Top Log Interval
Casing Driller
Casing Logger
Bit Size
Type Fluid in Hole
Density
Viscosity
Fluid Loss
Source of Sample
Rm @ Measured Temp
Rmf @ Measured Temp
Rmc @ Measured Temp
Source Rmf / Rmc
Rm @ BHT
Max Rec Temp
Equipment Location
Recorded By
Witnessed By
Time Since Circulation
Time Since Circulation
Time Since Circulation

COMPANY	[illegible]
WELL	[illegible]
FIELD	[illegible]
COUNTY	[illegible]
STATE	[illegible]
LOCATION	[illegible]
API NUMBER	[illegible]
SERIAL NUMBER	[illegible]
DATE	[illegible]
RUN NUMBER	[illegible]
DEPTH DRILLER	[illegible]
DEPTH LOGGER	[illegible]
BOTTOM LOGGED INTERVAL	[illegible]
TOP LOGGED INTERVAL	[illegible]
CASING DRILLER SIZE @ DEPTH	[illegible]
CASING LOGGER SIZE @ DEPTH	[illegible]
BIT SIZE	[illegible]
TYPE FLUID IN HOLE	[illegible]
DENSITY / VISCOSITY	[illegible]
PH / FLUID LOSS	[illegible]
SOURCE OF SAMPLE	[illegible]
RM @ MEASURED TEMP	[illegible]
RMF @ MEASURED TEMP	[illegible]
RMC @ MEASURED TEMP	[illegible]
SOURCE RMF / RMC	[illegible]
RM @ BHT	[illegible]
TIME SINCE CIRCULATION	[illegible]
TIME LOGGER ON BOTTOM	[illegible]
MAX. RECORDED TEMP.	[illegible]
EQUIPMENT NUMBER	[illegible]
LOCATION	[illegible]
RECORDED BY	[illegible]
WITNESSED BY	[illegible]

TOOL TYPE (EPITHERMAL OR THERMAL)					
TOOL STANDOFF (IN INCHES)					

Company: Dennison Coal	Borehole: G80W7713
Township:	Range:
Section:	Elevation:
County:	Province: British Columbia, Canada
Log measured from: 814.2ft(248.0m)KB,2ft above KB	Drilling measured from: KB

Date: 2-Jan-80	Run No: 1
Depth-Driller: 348.0	Depth-Logger: 348.0
Depth Logged: 348.0	Bottom Log Interval: 348.0
Top Log Interval: 0.0	Casing-Driller: 14.0
Casing-Logger: 14.0	Bit Size: 7 7/8
Type Fluid in Hole: Water	Dens: Visc:
pH: Fluid Loss: ml	Source of Sample:
Rm @ Meas Temp: @ °F	Rmf @ Meas Temp: @ °F
Rmc @ Meas Temp: @ °F	Source: Rmf: Rmc:
Rm @ BHT: @ °F	Rmf @ BHT: @ °F
Rmc @ BHT: @ °F	

Equipment:	2-3426C1
Location:	Kelowna, B.C.
Recorded by:	D.Hoskins
Witnessed by:	J.Ferguson

Company	Dennison Coal
Well	G80W7713
Field	
County	
State	B.C.
Country	Canada

Other Services: Caliper, Density, Neutron, Gamma Ray

Field name

REMARKS:

Changes in Mud Type or Additional Samples:

Date	Sample No.				
Depth - Driller					
Type Fluid in Hole					
Dens	Visc				
pH	Fluid Loss	ml			
Source of Sample					
Rm @ Meas Temp	@ °F		@ °F		
Rmf @ Meas Temp	@ °F		@ °F		
Rmc @ Meas Temp	@ °F		@ °F		
Source: Rmf	Rmc				
Rm @ BHT	@ °F		@ °F		
Rmf @ BHT	@ °F		@ °F		
Rmc @ BHT	@ °F		@ °F		

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

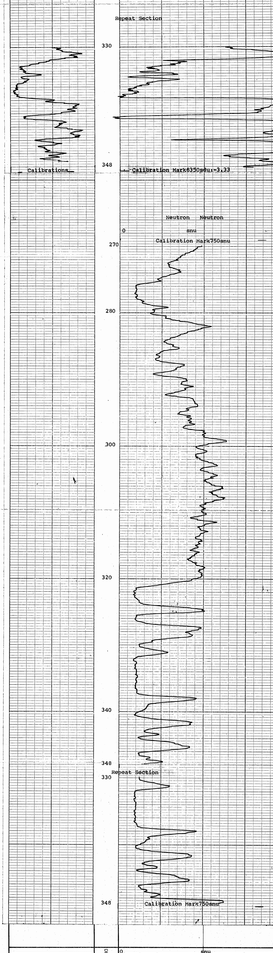
Equipment Data

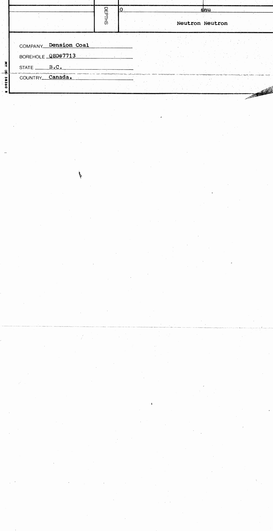
Run No.	Tool Type	Tool Position	Other
1	C.C.D.	sidewall	
2	Gamma	eccentralized	
3	Neu	eccentralized	

Logged Intervals

Log	Depths From	Depths To	Speed F/M	T.C.	Run no.	Density	Source No.
Gamma	348	270.9	1	.095	1	1.18	
L.S.D.	348	270.9	0.1	.325	1	2.31	R=5863
Neu	348	270.9	1	.714	9	8	R=1960

Note:1. Hole Deepened from 280m
2. Hole logged through pipe
3. Depth alignment not in agreement with original logs due to different permanent datum level.





COMPANY: Dennison Coal

BOREHOLE: G80W7713

STATE: B.C.

COUNTRY: Canada.

COMPANY	PETROLEUM DEVELOPMENT OMAN LLC
WELL	MAHWIS-1
FIELD	MAHWIS
COUNTY	SULTANATE OF OMAN
STATE	OMAN
LOCATION	1000 FSL & 1000 FEL
SECTION	
TOWNSHIP	
RANGE	
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	KELLY BUSHING
DRILLING MEASURED FROM	KELLY BUSHING
API NO.	
LOG NO.	
DATE	19-Jan-2010
RUN NO.	ONE
DEPTH DRILLER	1500
DEPTH LOGGER	1500
BOTTOM LOG INTERVAL	1500
TOP LOG INTERVAL	0
CASING DRILLER	20" @ 0
CASING LOGGER	20" @ 0
BIT SIZE	17.5
TYPE FLUID IN HOLE	WATER
DENSITY	1.0
VISCOSITY	40
PH	8.5
FLUID LOSS	N/A
SOURCE OF SAMPLE	FLOWLINE
RM @ MEASURED TEMP	0.0 @ 0
RMF @ MEASURED TEMP	0.0 @ 0
RMC @ MEASURED TEMP	0.0 @ 0
SOURCE OF RMF	
SOURCE OF RMC	
RM @ BHT	0.0 @ 0
TIME CIRC. ENDED	0:00
TIME LOGGER ON BOTTOM	0:00
MAX. RECORDED TEMP.	0
ESTIMATED BHT	0
EQUIPMENT	
RECORDED BY	
WITNESSED BY	

BOREHOLE RECORD			
BIT NO.	SIZE	FROM	TO
1	17.5	0	1500

CASING RECORD			
	SIZE	WEIGHT	GRADE
SURFACE	20"		
PRODUCTION			
LINER			

TOOL NO.	TYPE	POSITION

MATRIX	DENSITY	NEUTRON
SANDSTONE	2.65	-0.035
LIMESTONE	2.71	0.000
DOLOMITE	2.87	0.035
ANHYDRITE	2.96	0.002
SALT	2.03	1.000
FRESH WATER	1.00	1.000
SALT WATER	1.10	0.700
OIL	0.85	0.100
GAS	0.20	-0.045

MATRIX	DT	U
SANDSTONE	55.5	4.8
LIMESTONE	47.5	13.8
DOLOMITE	43.5	9.0
ANHYDRITE	50.0	9.0
SALT	67.0	4.65
FLUID	DT	
FRESH WATER	189	
SALT WATER	185	
OIL	240	
GAS	300	

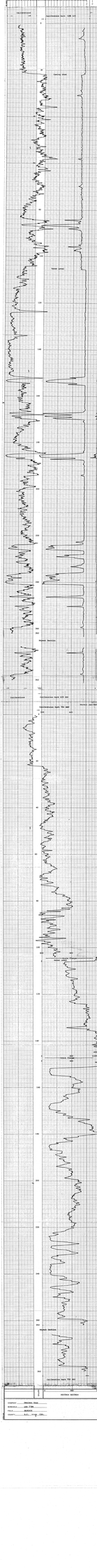
CASING TALLY ESTIMATED FOR MISSING CASING CASING LOGGED.

CASING SHOT	LOGGED	LOGGED DEPTHS DENSITY	FOLLOWS
NO	YES	1500	0

CALIBRATION DATA	CALIBRATION DATA
N/A SEE PREVIOUS FILE	N/A SEE PREVIOUS FILE
N/A FILE NAME	N/A NAME
N/A DATE	N/A DATE
N/A TIME	N/A TIME
N/A BY	N/A BY
N/A SHOP	N/A SHOP
N/A SERIAL NO.	N/A SERIAL NO.
N/A MODEL	N/A MODEL
N/A DIAL	N/A DIAL
N/A SHOP	N/A SHOP
N/A SERIAL NO.	N/A SERIAL NO.
N/A MODEL	N/A MODEL
N/A DIAL	N/A DIAL

GAMMA RAY	GAMMA RAY
N/A SEE PREVIOUS FILE	N/A SEE PREVIOUS FILE

COAL BULK DENSITY	COAL BULK DENSITY
N/A SEE PREVIOUS FILE	N/A SEE PREVIOUS FILE



COMPANY	PETROLEUM DEVELOPMENT OMAN LLC
WELL	MAHWIS-1
FIELD	MAHWIS
COUNTY	SULTANATE OF OMAN