SIMON PETROLEUM TECHNOLOGY

WELL: 15/3-3

Print: 1864 W	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 39 FT	Initials:	130	5115	1:500	5110.5

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

W

COMPLETION — Ø

	YEAR	LICENCE	OWNER	OPERATOR	FIELD
	1979	025	Petronord	EAN	GUDRUN

OWNER	WELL	OPERATOR
Petronord	**15/3-3**	**Elf Aquitaine Norge a.s**

COMPOSITE LOG

EAN

15/3-3

1979

AREA : **NORWAY**
off-shore

scale 1/500

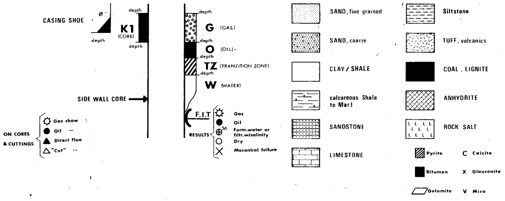
Coordinates	x : 58° 52′ 31.″25 N	Date spudded :	05.01.1979
	y : 01° 46′ 46.″27 E	Started drilling :	05.01.1979
Waterdepth : 109 m	RKB : + 24 m	At T.D. :	02.06.1979
Rig :	Pentagone 84	T.D. (driller) :	5115 m
Contractor :	Forex Neptune	T.D. (logger) :	5110,5 m
Mud logging :	Geoservices	COMPLETED :	10.08.1979

Well-site geologists :

Approved by : date :

Status : Gas & Condensate in Jurassic sandstone.
Plugged and Abandoned

LEGEND



SPONTANEOUS POTENTIAL
millivolts
10

Depths

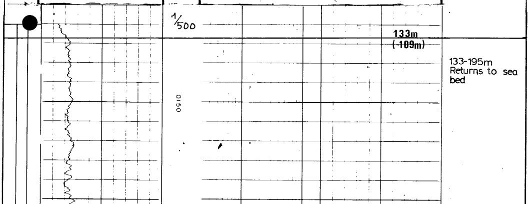
RESISTIVITY
ohms - m
DEEP INDUCTION R_{LD}
0.2 10 10 100 1000 2000
SPHERICALLY FOCUSED RESITIVITY R_{SF}
0.2 10 10 100 1000 2000

GAMMA RAY
api units
0 100

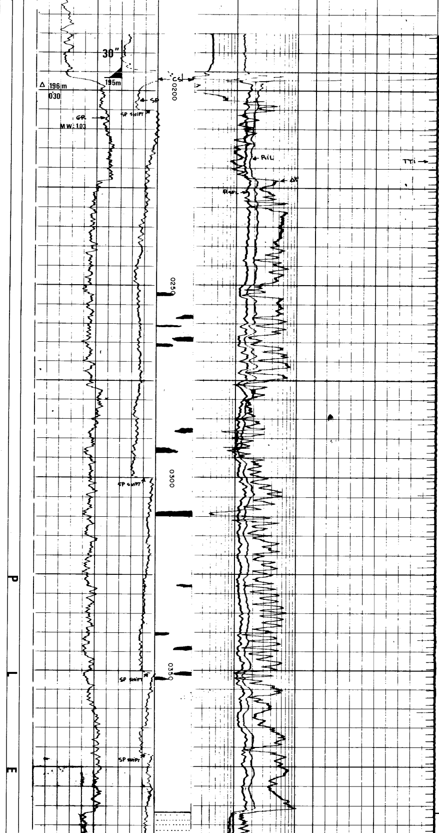
Depths

INTERVAL TRANSIT TIME Δ t
microsecond per foot
190 140 90

TTI
10 m sec
1 m sec



133-195m
Returns to sea bed



195-387m

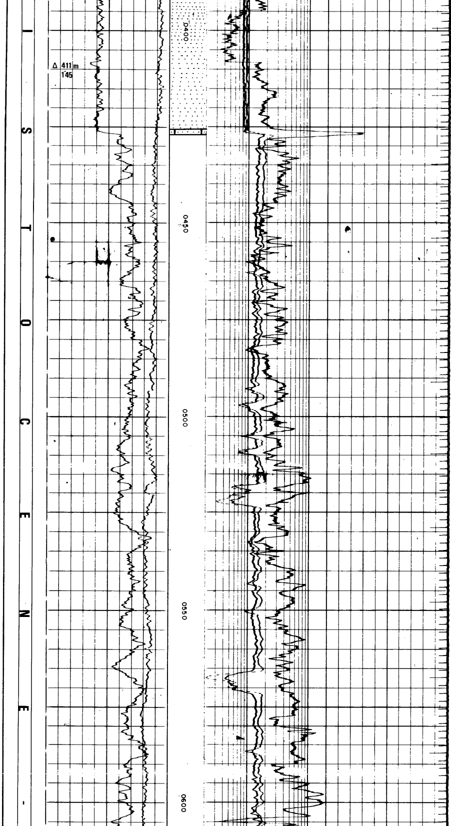
Clay, grey to dark grey, silty

Sand interbeds fine to coarse

Mica

Lignite

387-427m

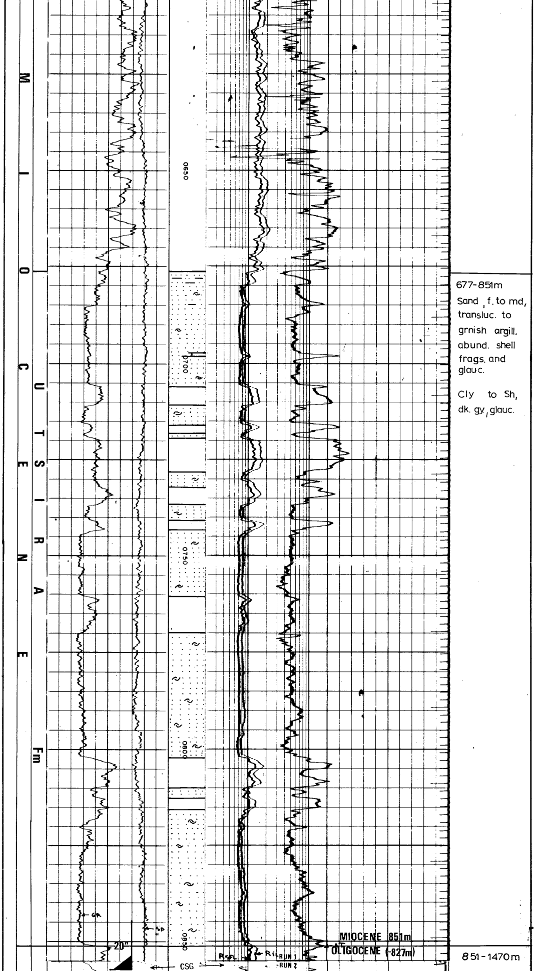


Sd.,argil. fine to medium traces of Shell, Mica, Pyrite, Glauc.

427-677

Clay grey sticky, glauc.

Abund. forams

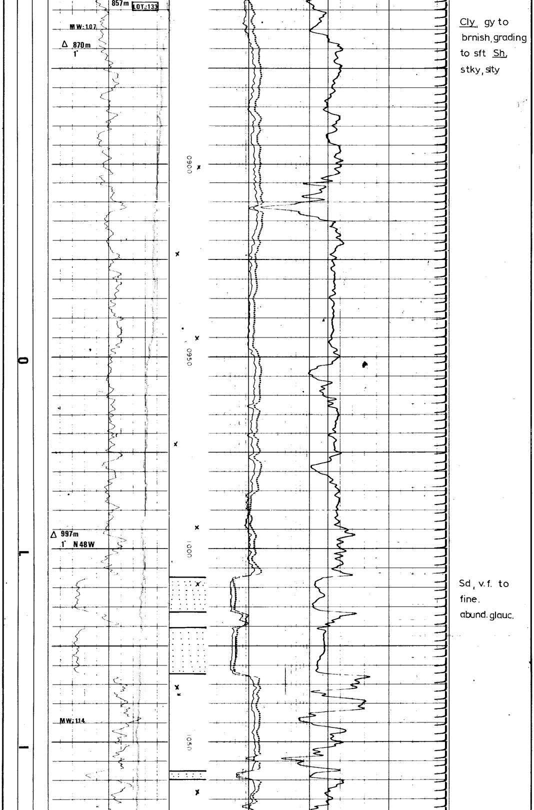


677-851m

Sand, f. to md, transluc. to grnish argill. abund. shell frags. and glauc.

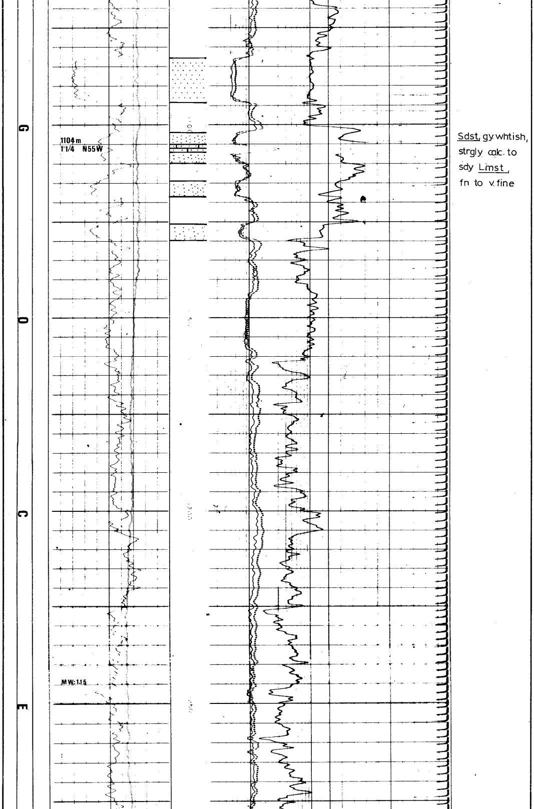
Cly to Sh, dk. gy, glauc.

851-1470m

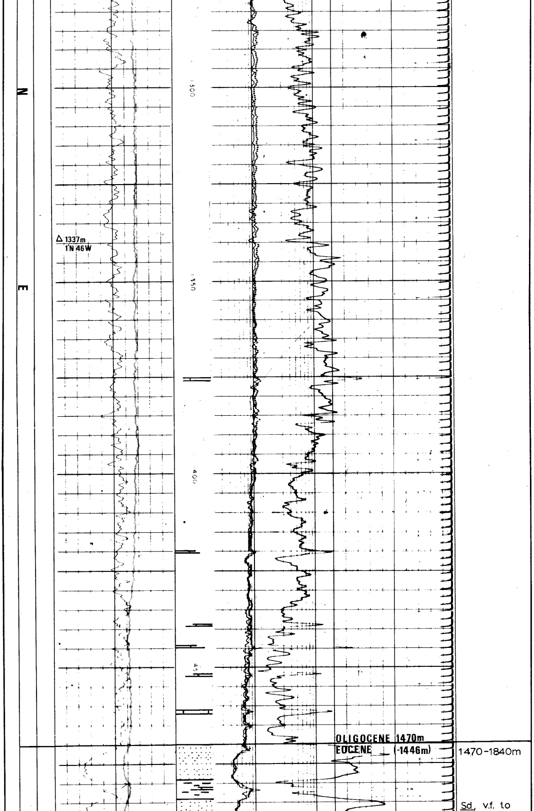


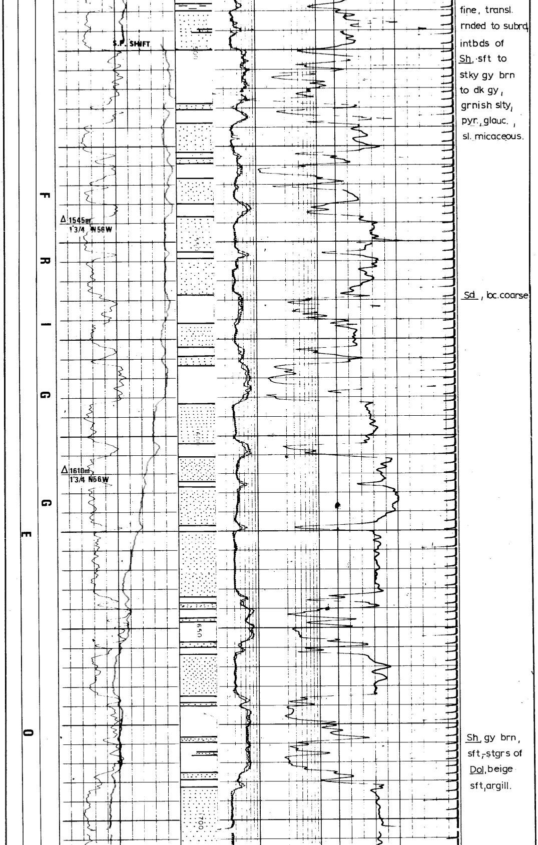
Cly, gy to brnish, grading to sft Sh, stky, slty

Sd, v.f. to fine. abund. glauc.



Sdst, gy whtish, strgly calc. to sdy Lmst, fn to v.fine

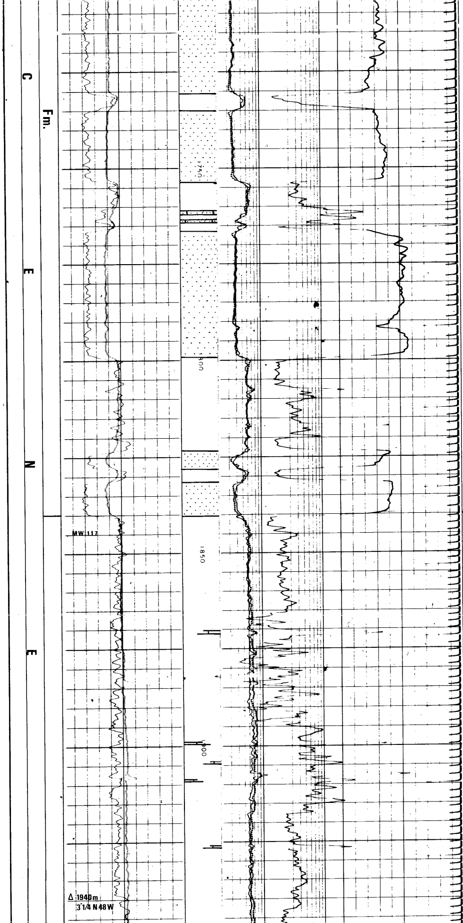




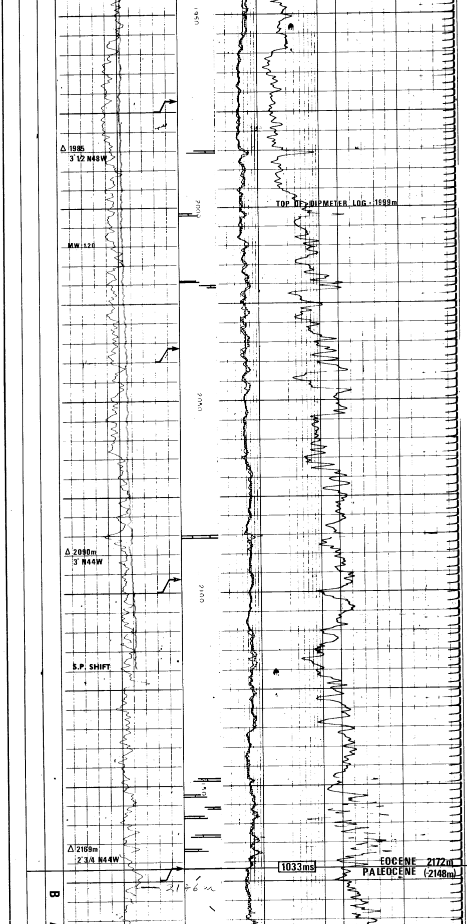
fine, transl. rnded to subrd, intbds of Sh, sft to stky gy brn to dk gy, grnish slty, pyr., glauc., sl. micaceous.

Sd, loc.coarse

Sh, gy brn, sft, stgrs of Dol, beige sft, argill.



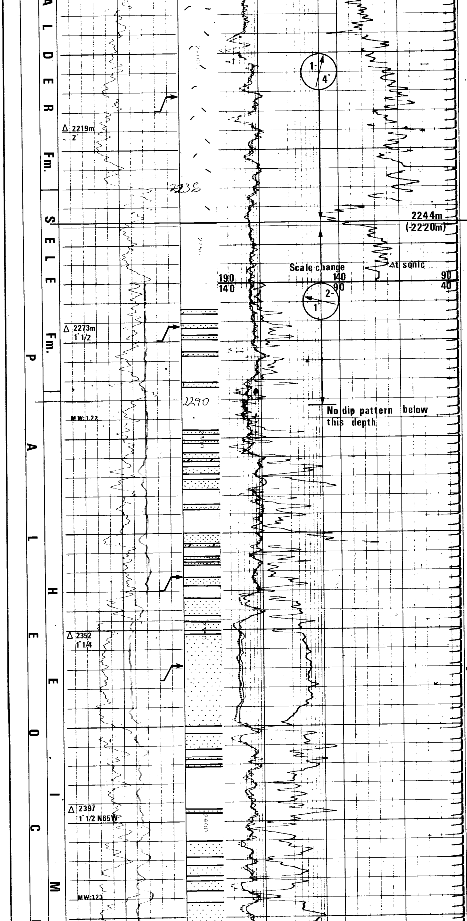
1840-2172 m
Sh, dkgy, gy
brn, sft, slty
micmic.
Traces of py
glauc.
strgs of Dol.
Lmst



From: 2120m
tr.of Sh.gy to
rd brn,
micaceous.

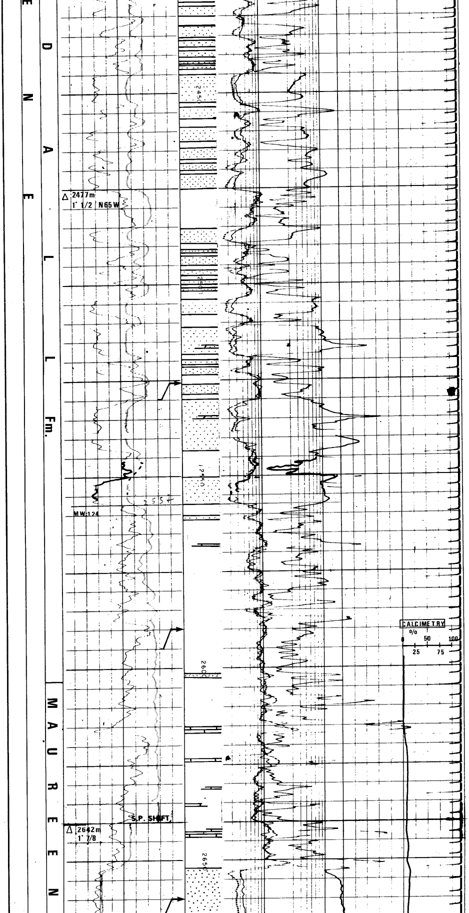
C1

2172-2244m
Sh, gy to rd
brn pigmented

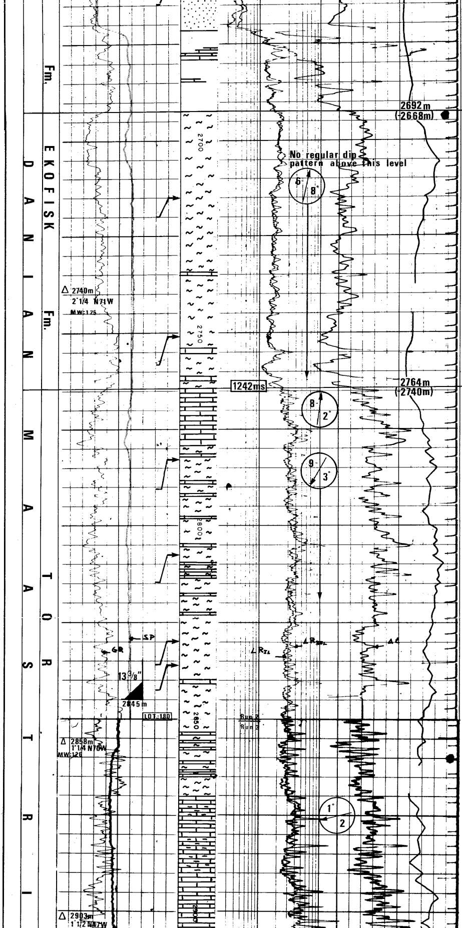


(tuff facies)

2244-2692m
altern, of Sd, prly srted, f. to crs, subrnd, grdng to sdst, v.f, argil
Sh, gy to dk gy, slty.
stringers of dol. Lmst, beige



Stgrs of Lmst
beige to wht,
med. hd, chky

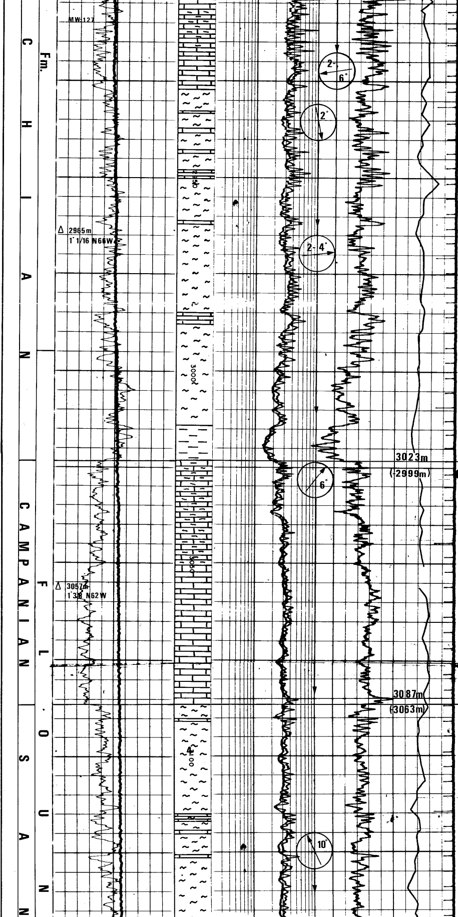


2692-2764m

Mrl, lt gy to pink, sft and strgs of Lmst, wht chky.

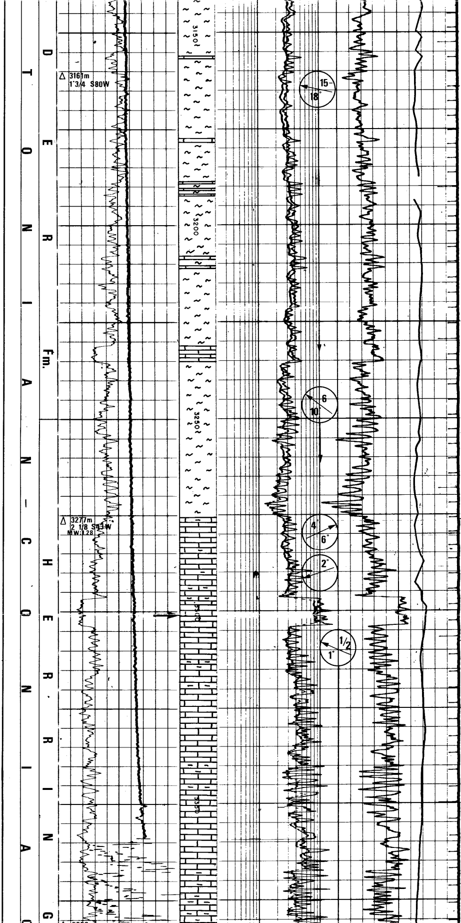
2764-3023m

Mrl to chky Lmst, lt gy to wht rare levels of Sh, dk gy, micmic, pyr.

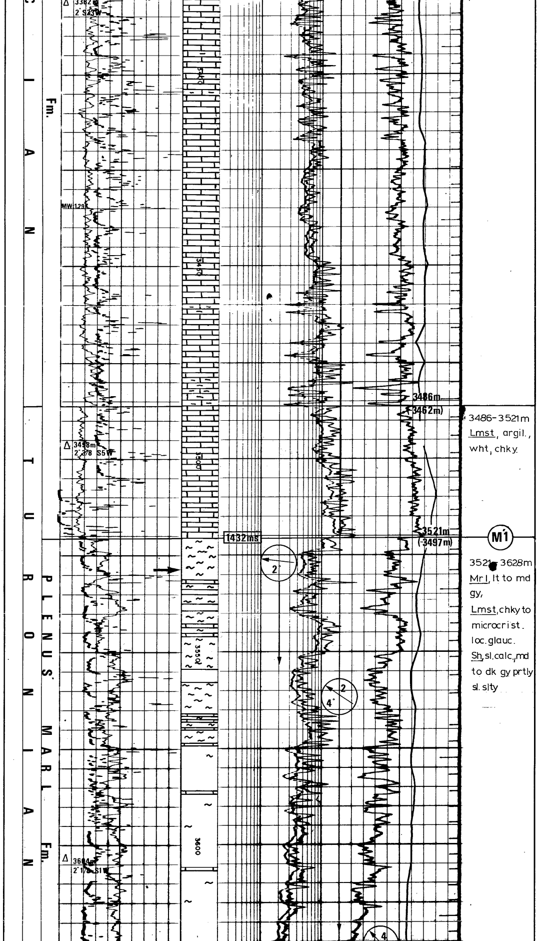


3023-3087m
Lmst, rd to
pink sft
prtly argil.

3087-3276m
Mrl, lt gy. loc.
pink to md
gy.
rare intbds
of Lmst, argil.,
rd pink

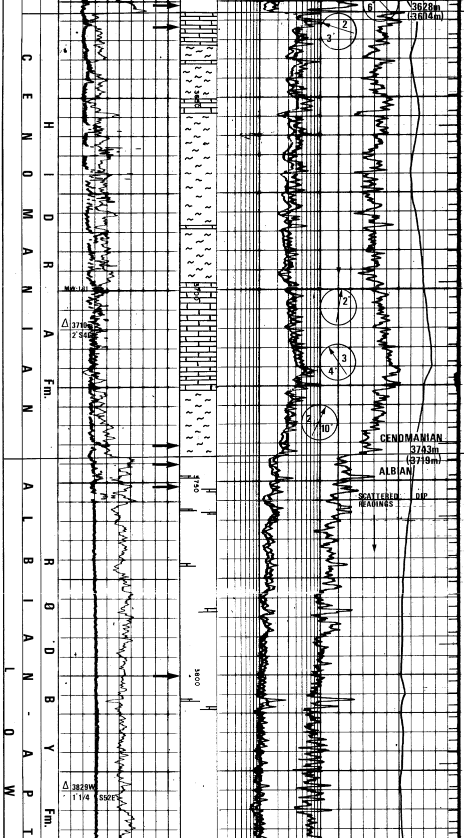


3276-3486m
Lmst, chky wht to lt gy, argil. and Mrl, lt to med gy.



3486-3521m
Lmst, argil., wht, chky.

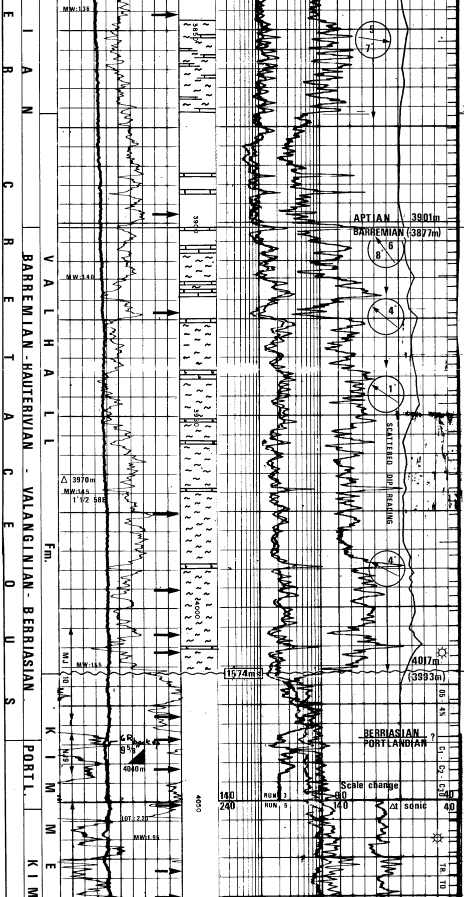
3521-3628m
Mrl, lt to md gy,
Lmst, chky to microcrist. loc. glauc.
Sh, sl. calc, md to dk gy prtly sl. slty



3628-3743m
Mrl, lt to md gy, and Lmst, beige to dk gy, microcrist.

3743-3901m
Sh, dk gy to rd brnsh, sl. slty, prtly micaceous. rare stgrs of dk gy, argil. Lmst.

Sh, rd brnish.



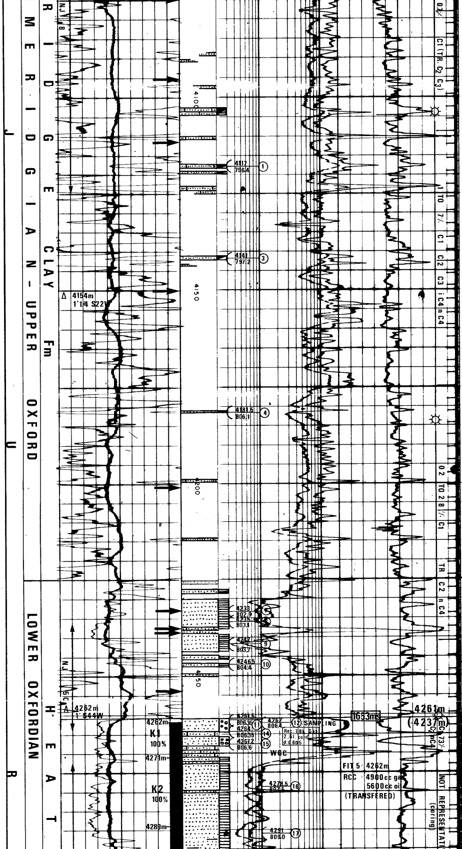
3872m
Vallhall

3901 – 4017m
Sh, calc. grdng to marl md to dk gy, loc. rd pink strgs of dol.
Lmst, brn, hd
Abund. mica

M2

4017–4230m

Sh, dk brn indur., mic., in part loc. v. slty to sdy. Rare strgs of Sdst, f. to md, dk brn, subang., loc. calc.–
Abund. pyr.

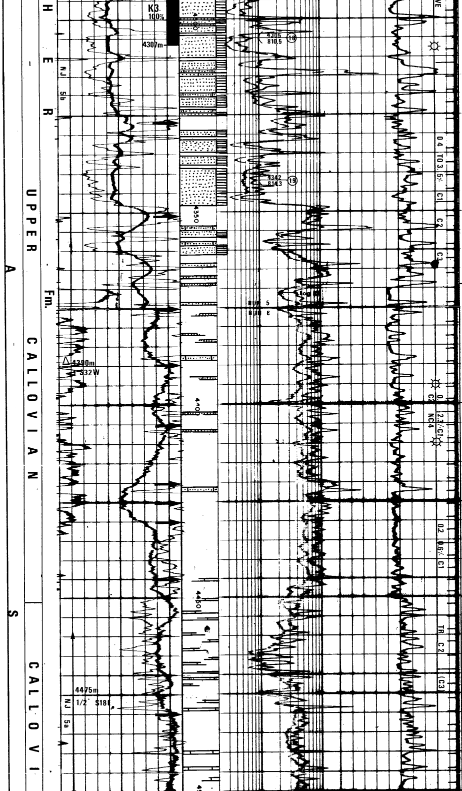


4225 -4247m
Sdst, gy beige
to brn, f. to
v. crse, pyr.,
loc. mic, subarg

4247- 4261 m
Sh, dk brn
mic., pyr.

J

4261 - 4369m
K1: rec 100%
Sdst, dk gy,
crs to v crse
friable and
Sdst, strgly
calc. cmt,
f. to v. fine



K2: rec 100%
Predom. Sdst, dk gy, crs to v. crse, friable

K3: rec 100%
Sdst, dk gy, crse w/rare intbds of calc. f. Sdst, and dk gy Sh.

Sdst, md to v. crse, subang loc. pyr. and Sh, dk brn loc. slty, micmic.

4369–4450m

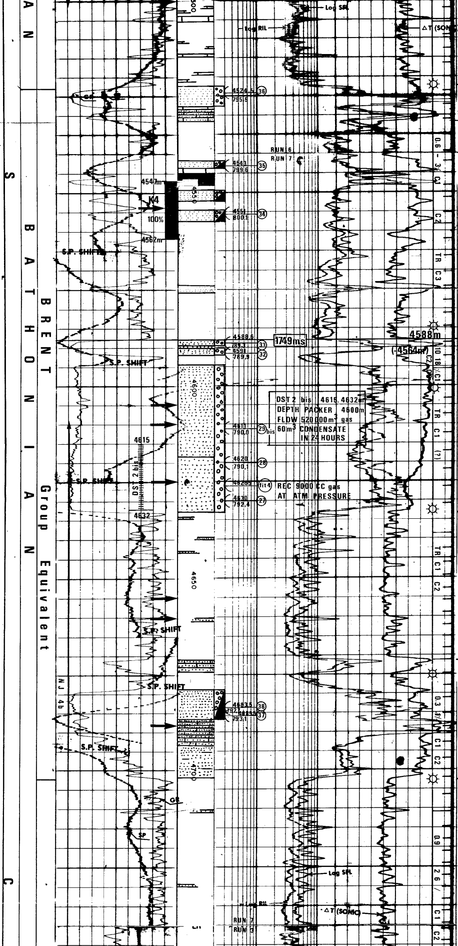
Sh, brn to dk brn, mic., md pyr., rare strgs of v.f. Sdst, beige to gy, loc. calc. cmt.

4450–4479m

strgs of Lmst, dk gy to dk brn, loc. microcrist.

4479–4522m

Sh, dk gy to dk brn w/rare strgs of Lmst a.a.



4522–4586m
Sdst, v. f., beige brn, snbang.
Sh, dk gy to blk, compact.
K4 rec 100%
Intbds of coal mass brit!
Sdst vf to f
Sltst loc dol
and dk gy Sh
abund mica
and pyrite.

4532

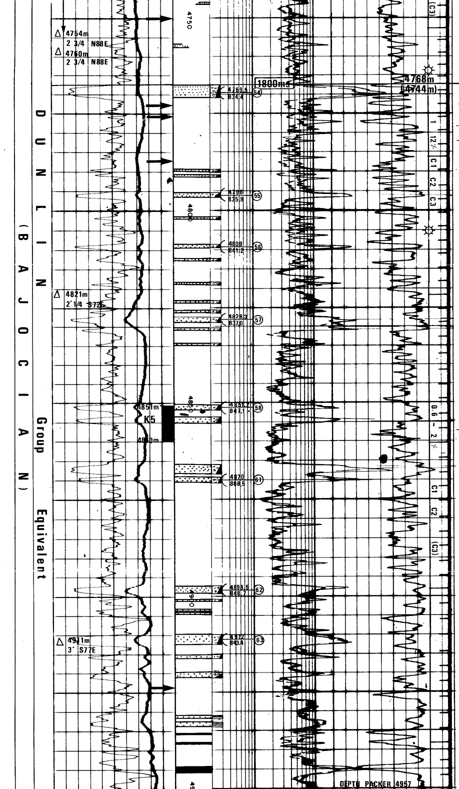
4588–4632m
Sdst, beige brn, f. to md well, cmt quartzitic subang.

4632–4672m
Sh to Sltst dk gy to brnsh micaceous rare stgrs of v.f to md well cmt Sdst.

4672–4702m
Sdst, beige brnsh, f. to v.f, silic., sl. micaceous loc. argil.

4702–4768m
Sh, dk gy to brnsh, micac. grdng to Sltst.

4740



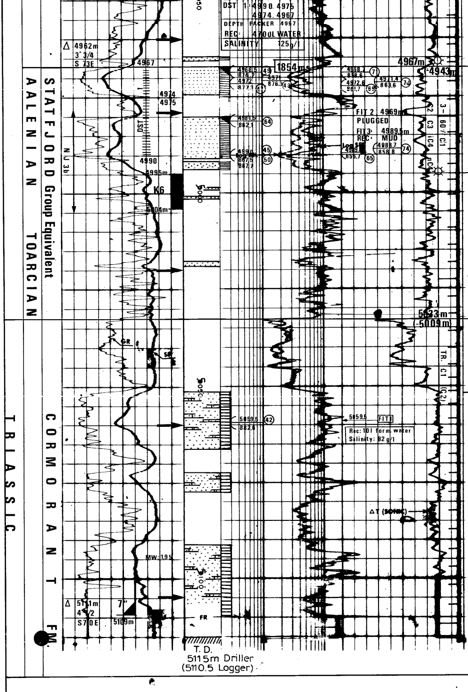
J3

4768-4967m

Sh, dk gy to Sltst, rare metric levels of Sdst, v.f, loc. md to coarse, well cmt.

K5: rec 100%
Slst, lt gy, grdng to Sdst, v.f, Sh, dk gy intbd, tr. of coal

coal



T. D.
5115m Driller
(5110.5 Logger)

J4

4967–4994m
Sdst, transl. to beige brnst f, loc. md to coarse dk Sh a.a.

4994–5033m
K6: rec.100%
Sltst to Sh, dk brny, mic:, and rare strgs of v.f. Sdst

5033–5052m
Sh, rd to purple and gy-grnsh

5052–5111m
Sdst, f.compact, well cmt, sl. calc, wht to transl, and Sh a.a.

HOLE RECORD

DRILLING	
36 " to 196 m	30 " at 195 m
26 " to 870 m	20 " at 857 m
17 1/2 " to 2959 m	13 3/8 " at 2885 m
12 1/4 " to 4052 m	9 5/8 " at 4040 m
8 3/8 " to 5115 m (T.D.)	7 " liner at 5109 m
	(Liner hanger at 3853 m)

LOGS RUN

ISF SONIC GR SP

DEPTH	RUN
866 195 (GR to surface)	1
2757 844	2
2862 2600	2bis
3827 2844	3
4052 3750	3bis
4310,5-4042,7	4
4389,7-4042,4	5
4560,5-4250,0	6
4756-4438	7
4967-4650	8
5110-4740	9

FDC GR CAL

2857 858	1
4052 2843	2

FDC CNL GR CAL

4391,0 4042,4	3
4787 4300	4
5110- 4740	5
5110- 4740	6

DLL MSFL

4390,5-4042,2	1
4767-4334	2
5110-4735	3

SONIC LONG SPACING

4049 2844	1

HDT

2862 2000	1
4052 2844	2
4762.5-4037,4	3
5110-4740	4

VELOCITY SURVEY

5100-1580	2

CBL CBL VDL

2862 1800 and 1000 30	1
2844 2544 and 950 846	2a
2844 2544 and 325 800	2b
4042,3 2433.0	3
5067 3840	4

TEMPERATURE

2950-1500	1

BORE HOLE GEOMETRY

5116-4042	1

CORES

NR.	DRILLER DEPTH	%REC	FORMATION
1	4262-4271	100	SANDSTONE
2	4271-4289	100	SANDSTONE
3	4289-4307	100	SANDSTONE
4	4547-4562	100	COAL SST SILT SH
5	4851-4860	100	SILT SHALE
6	4995-5004	100	SHALE SILT (SST)

SIDE WALL CORES

RUN	DEPTH	REC
1	2840-1975	30/18
2	4051-3301,5	30/21
3	4787,5-4540	30/7
4	4535-4095	30/14
5	4787,5-4420	30/3
6	4715-4068,5	24/17
7	5105-4795	24/1
8	5105-4795	24/6

RFT PRESSURE READING

DEPTH (RKB)	FORM PRESS Kg/cm^2	DEPTH	FORM PRESS	DEPTH	FORM PRESS	DEPTH	FORM PRESS	DEPTH	FORM PRESS
4117	796,4	4261,8	805,0	4342	814,3	4685,5	793,1	4968,7	853,6
4141	797,8	4262	806,5	4504,5	795,6	4769,5	834,4	4971	876,3
4181,5	806,2	4262	811,1	4543	799,6	4796	835,9	4971,4	863,6
4233	802,9	4262,5	805,0	4555,1	800,1	4809	841,3	4972,8	861,7
4235,5	803,2	4264	806,4	4586,6	789,2	4828,3	837,0	4973	878,5
4242	803,7	4264	805,0	4593	789,9	4851,2	847,1	4981,5	862,2
4246,5	804,5	4267,2	806,7	4611	790,0	4870	836,5	4983,7	858,8
4261,5	805,4	4278,5	807,6	4620	790,1	4898,5	846,7	4989,8	855,7
4261,5	804,3	4293	809,1	4630	792,5	4912	843,4	4990	867,6
4261,6	810,5	4305	810,5	4683,5	792,8	4968,5	874,9	4990	867,7
								5059,5	882,6

SAMPLING

RFT 12 : 4262 m : 7900 CC GAS
2600 CC CONDENSATE (D.: 0.806)

RFT 22 : 4261,2m : SEAL FAILURE

RFT 23 : 4262,5m : 1000 CC MUD TRACES OF CONDENSATE

RFT 24 : 4261,5m : 2500 CC CONDENSATE

FIT 1 : 5059,5 m : 1000 CC FORMATION WATER
(50 g/l)

FIT 3 : 4990 m : 1000 CC FILTRATE
(95,8 g/l)

FIT 4 : 4626.5 m : 9000 CC GAS
1000 CC MUD

FIT 5 : 4262 m : 4900 CC GAS
5600 CC OIL

DST

	PERFORATION	DEPTH PACKER	DURATION	RESULT
DST 1	4990. 4987	4958	FINAL FLOWING : 10^H30 FINAL BUILD UP : 12^H	RECOVERED : 4278 l OF SALT WATER (126 g/l) ON REVERSE CIRCULATION
DST 2BIS	4632.4615	4600	FINAL FLOWING : 23^H30 FINAL BUILD UP: 24^H	GAS ON SURFACE AFTER 22 MINUTES CUMULATED PRODUCTION 520 000m^3 GAS D : 0.656 AIR 60 m^3 PARAFINE CONDENSATE :41.5API AT 60°F. 1,6 m^3 WATER