SIMON PETROLEUM TECHNOLOGY **WELL:** 15/3-4

Print: 2619R	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 32 FT	Initials: TS	130	4260	1:500	4258

DIGITAL WIRELINE LOGS PACKAGE
1994
This image may not be used or reproduced without written permission from
SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

R Composition — Ø

YEAR	LICENCE	OWNER	OPERATOR	FIELD
1981-82	025	PETRONORD	EAN	GUDRUN

OWNER	WELL	OPERATOR
PETRONORD	15/3-4	EAN

COMPOSITE LOG

AREA : NORWAY off-shore

scale 1/500

PETRONORD
15/3-4
EAN

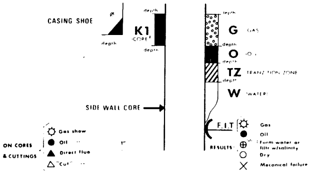
Coordinates X 01°52'59.817"E	Date spudded 03.10.1981
Y 58°49'05.279"N	Started drilling 03.10.1982
Water depth 107m RKB 25m	At T D 24.02.1982
Rig BORGSTEN DOLPHIN	T.D. (driller) : 4258,5 m
Contractor DOLPHIN	T.D. (logger) : TOP FISH 4094 m
Mud logging GEOSERVICES	COMPLETED 30.03.1982

Well-site geologists : G.CAILLET - C.LEGORJUS - C.GUESDON - P.HULOT - O.MINSAAS - J.GODVIK

Approved by : date :

Status : HYDROCARBON BEARING SANDSTONES IN JURASSIC FORMATIONS

LEGEND

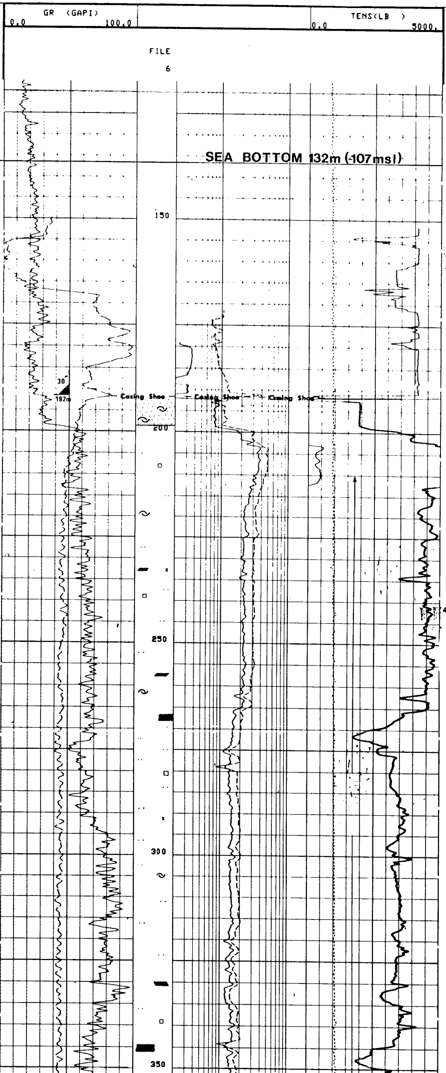


☐	SAND fine grained	▤	Siltstone
⠿	SAND coarse	⬚	TUFF, volcanics
▭	CLAY / SHALE	■	COAL, LIGNITE
▤	calcareous Shale to Marl	⠿	ANHYDRITE
▦	SANDSTONE	⁞	ROCK SALT
⬚	LIMESTONE		

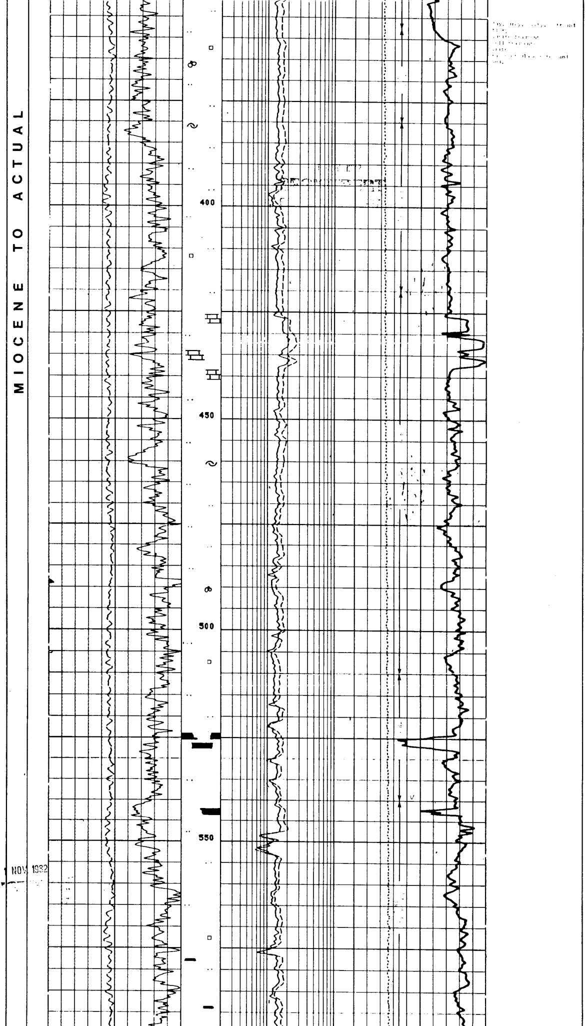
▨ Pyrite C Calcite
■ Bitumen X Glauconite

- 1 NOV. 1982

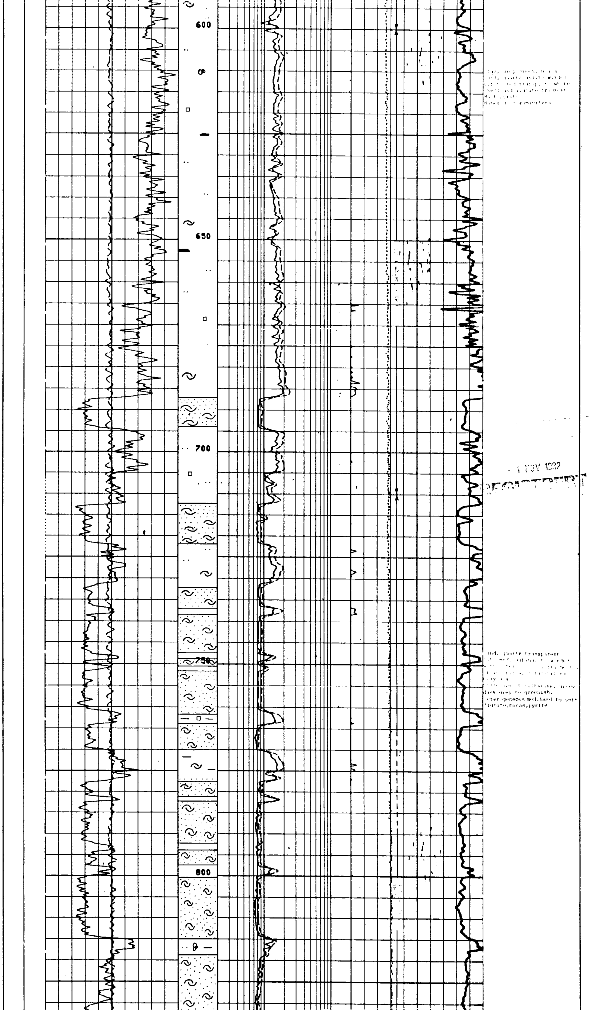
▱ Dolomite   V Mica



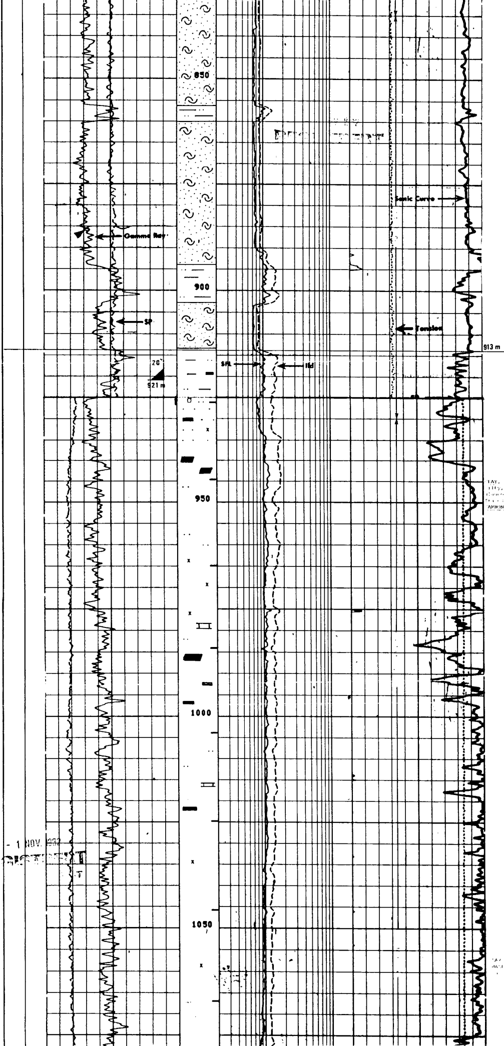
1 NOV. 1982



1 NOV 1982



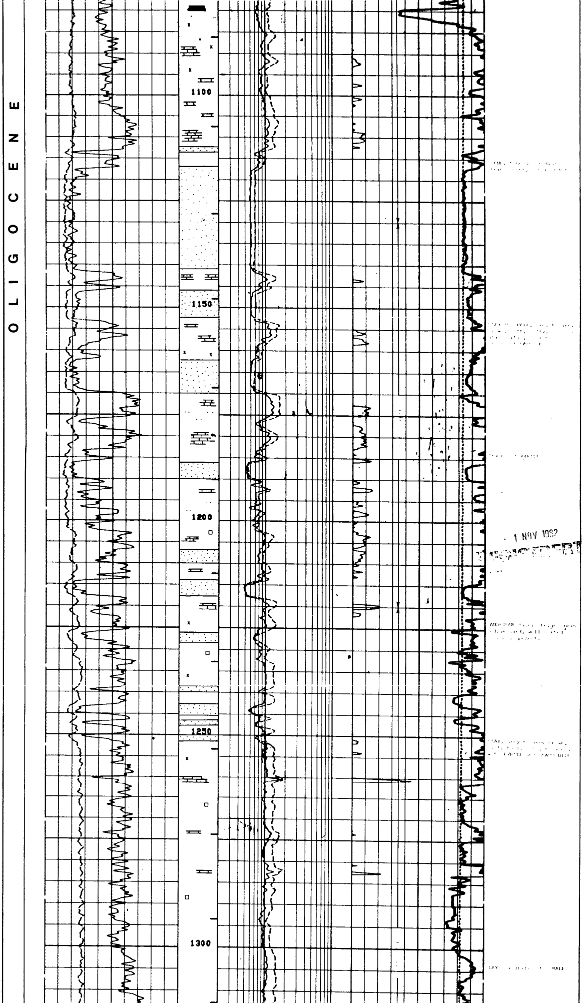
1 NOV 1982
REGISTERED



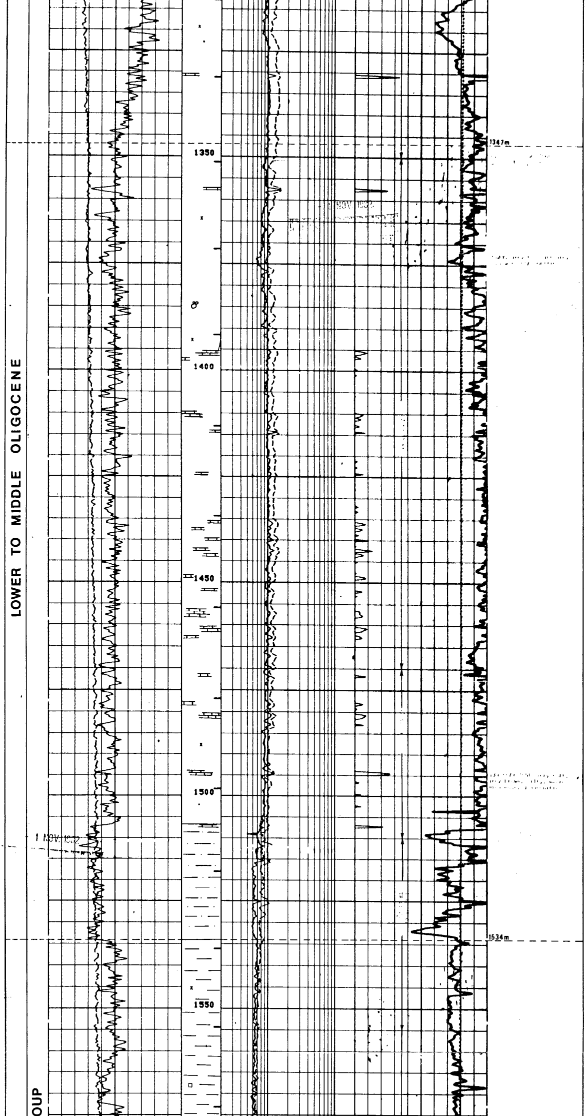
CLAY, grey brown soft
silty, slightly micaceous,
glauconitic,
traces of LIGNITE and
CARBONATES

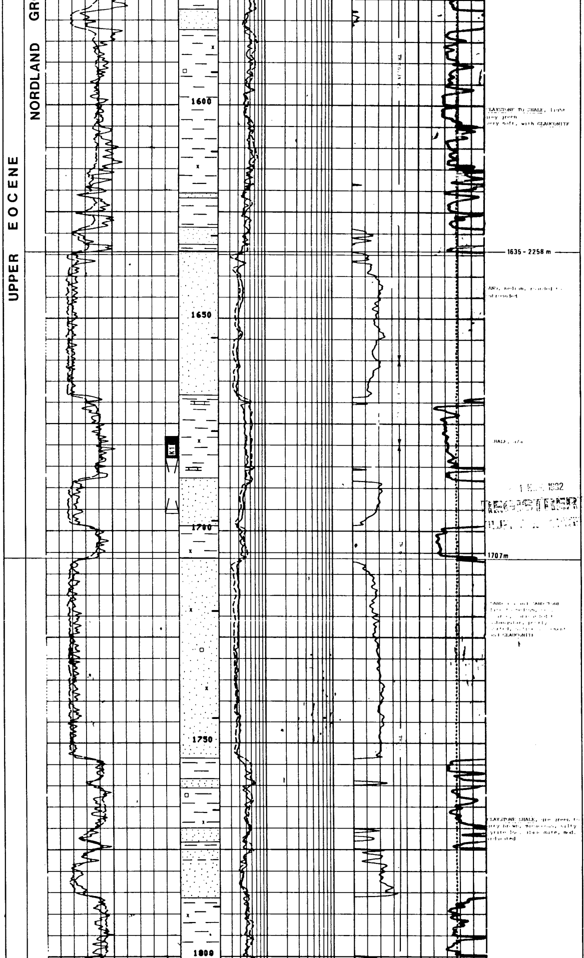
[illegible]

- 1 NOV. 1992
REGISTRERT

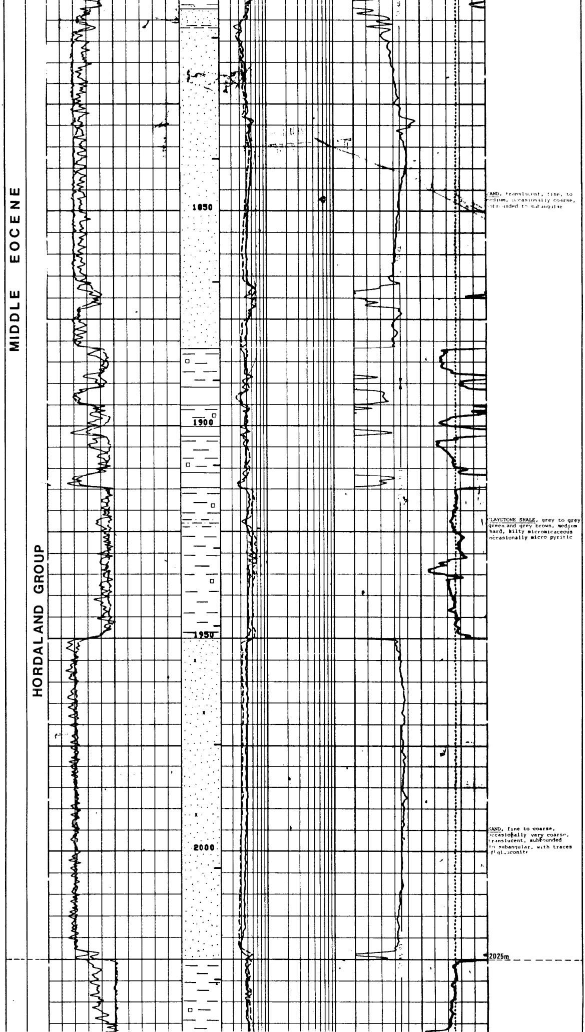


1 NOV. 1982





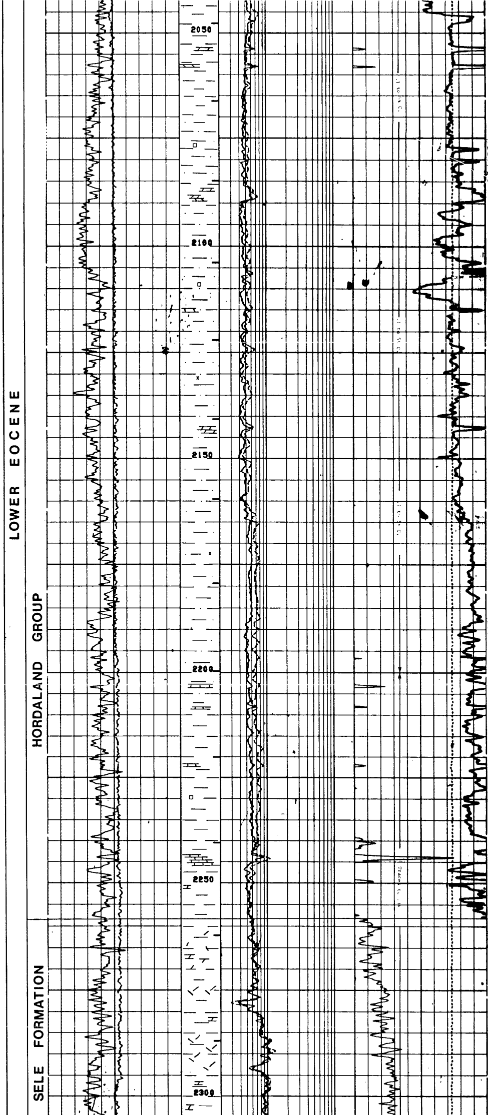
1 1982
REGISTRERT



SAND, translucent, fine, to medium, occasionally coarse, subrounded to subangular

CLAYSTONE SHALE, grey to grey green and grey brown, medium hard, silty micromicaceous occasionally micro pyritic

SAND, fine to coarse, occasionally very coarse, translucent, subrounded to subangular, with traces of glauconite



CLAYSTONE TO SHALE, grey brown to grey green, medium hard silty, micromicaceous occ. micropyrite
Traces of DOLOMITE beige, microcrystalline medium hard to hard

Traces of GLAUCONITE

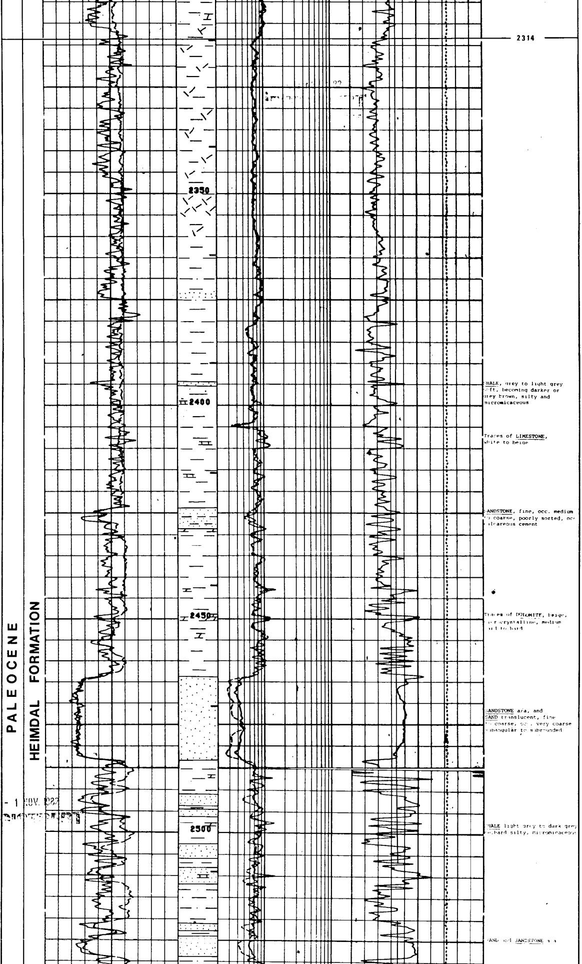
- 1 NOV 1982
REGISTRERT

CLAYSTONE TO SHALE, a/a, occasionally soft, bluish

Traces of LIMESTONE white, very soft, chalky

ⓒ1 — 2258 —

SHALE, grey to grey brown and dark grey, soft, heterogeneous, cemented with TUFF



SHALE, grey to light grey soft, becoming darker or grey brown, silty and micromicaceous

Traces of LIMESTONE, white to beige

SANDSTONE, fine, occ. medium to coarse, poorly sorted, occ calcareous cement

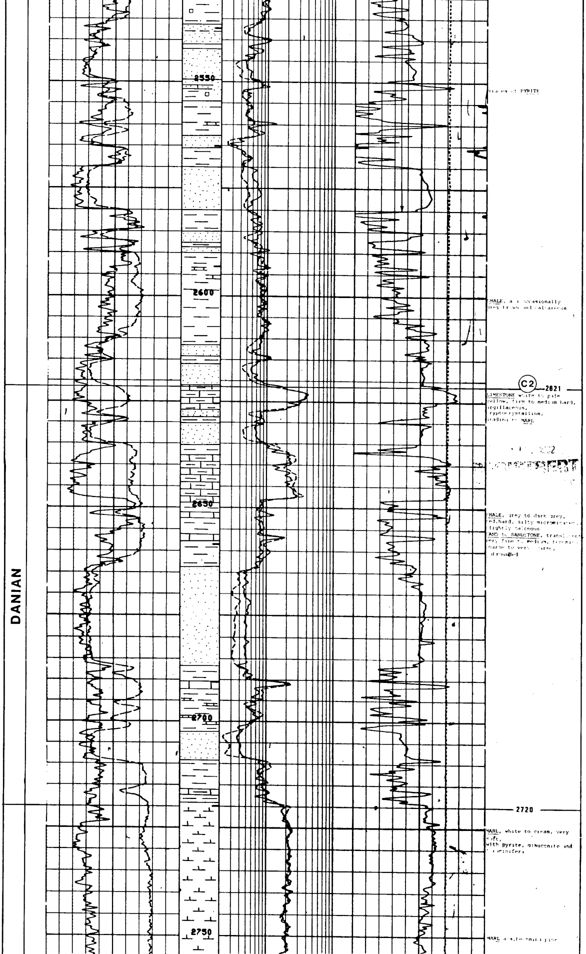
Traces of DOLOMITE, beige, microcrystalline, medium hard to hard

SANDSTONE a/a, and SAND translucent, fine to coarse, occ. very coarse subangular to subrounded

SHALE light grey to dark grey hard silty, micromicaceous

SAND and SANDSTONE a/a

- 1 NOV. 1982
[illegible]



Traces of PYRITE

SHALE, a [illegible] occasionally grey brown and calcareous

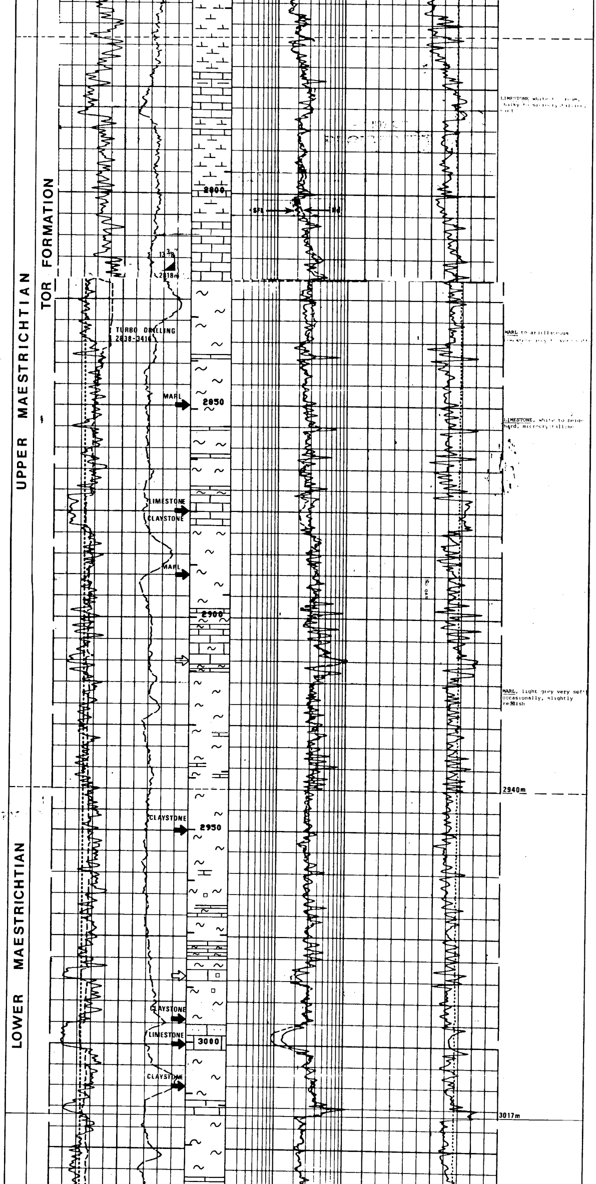
LIMESTONE white to pale yellow, firm to medium hard, argillaceous, cryptocrystalline, grading to MARL.

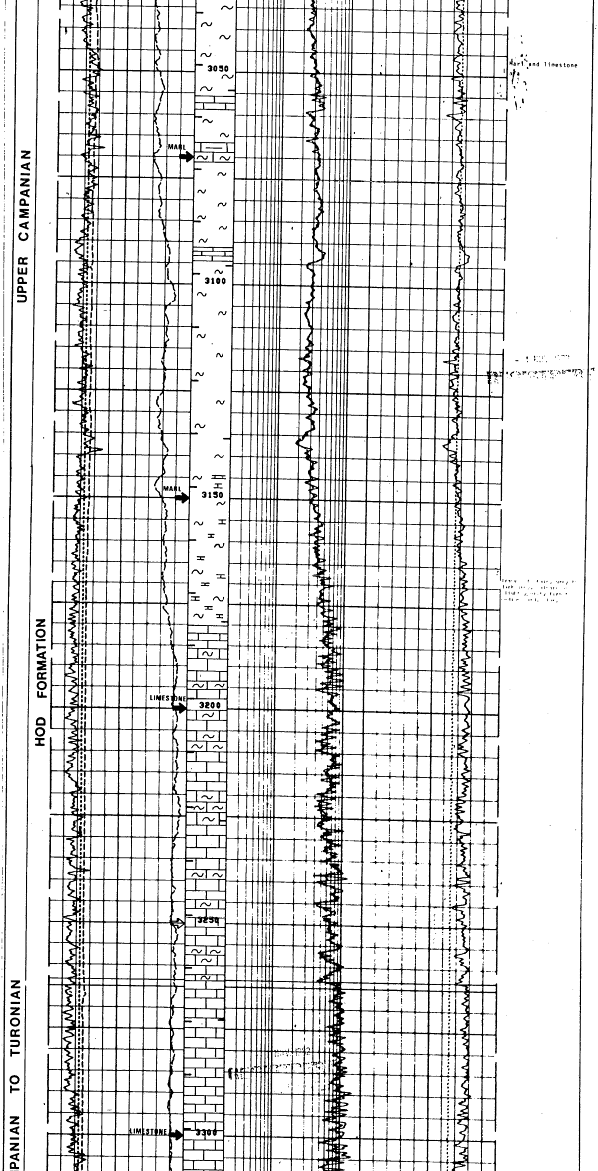
[illegible]

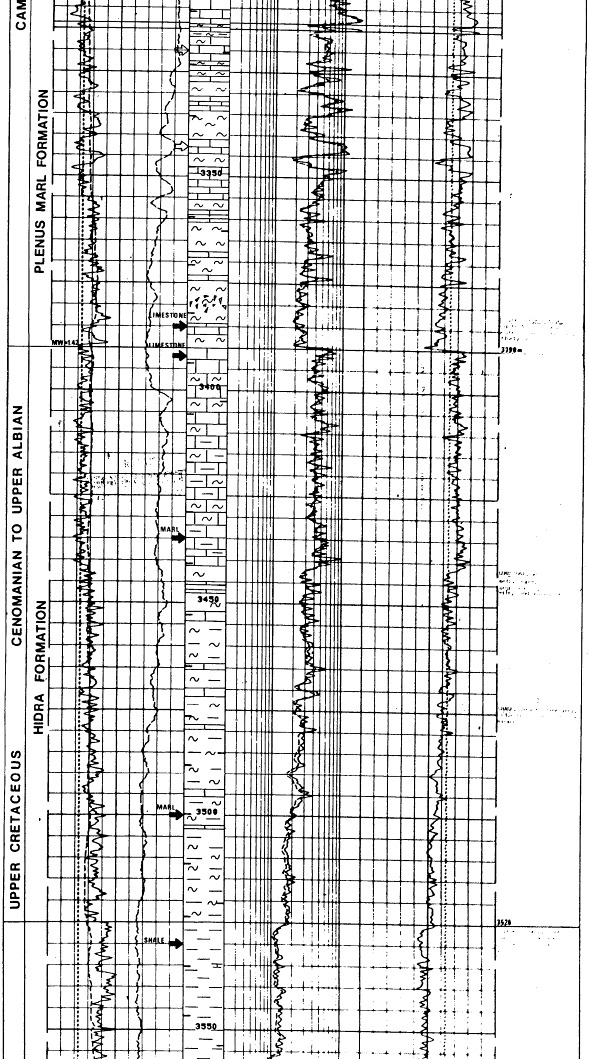
SHALE, grey to dark grey, red, hard, silty micromicaceous, slightly calcareous
SAND to SANDSTONE, translucent, very fine to medium, locally coarse to very coarse, subrounded

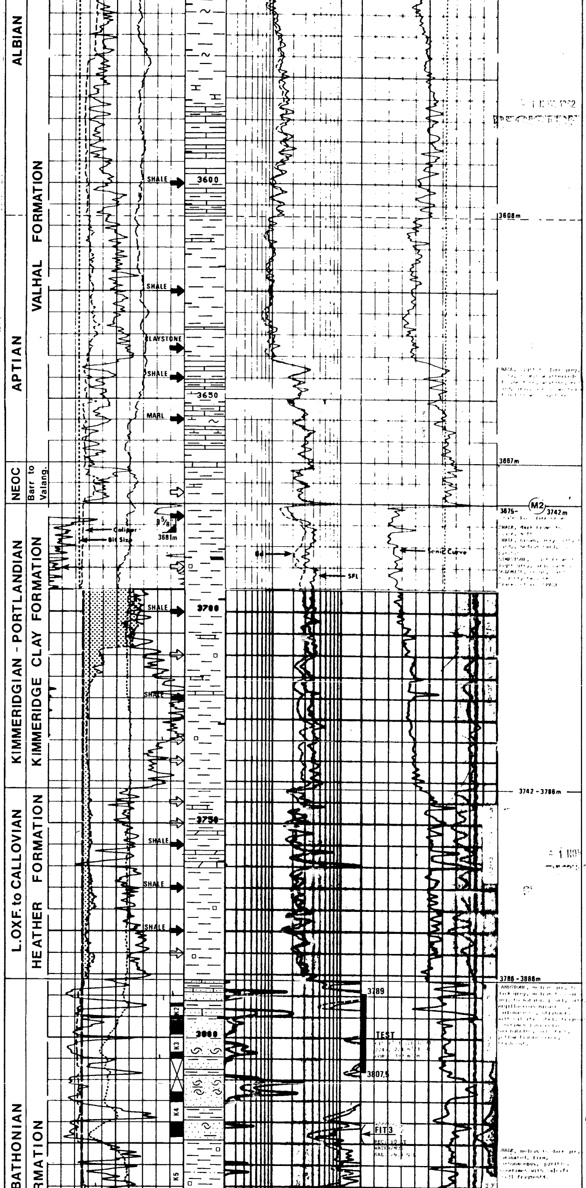
MARL, white to cream, very soft, with pyrite, glauconite and foraminifera

MARL a.a., [illegible]



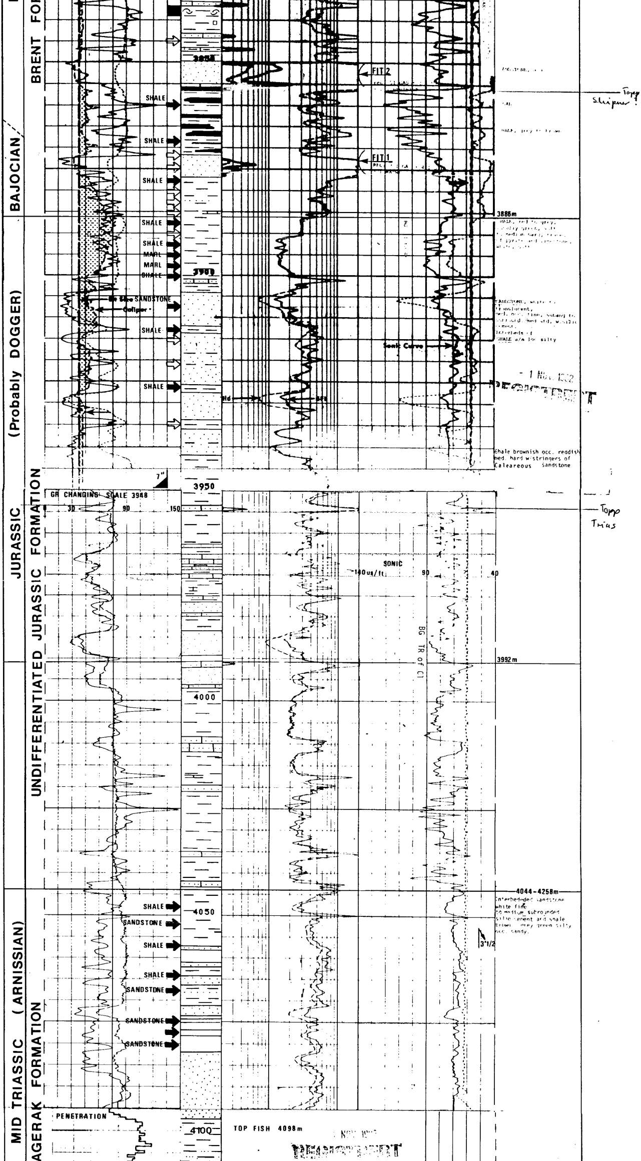


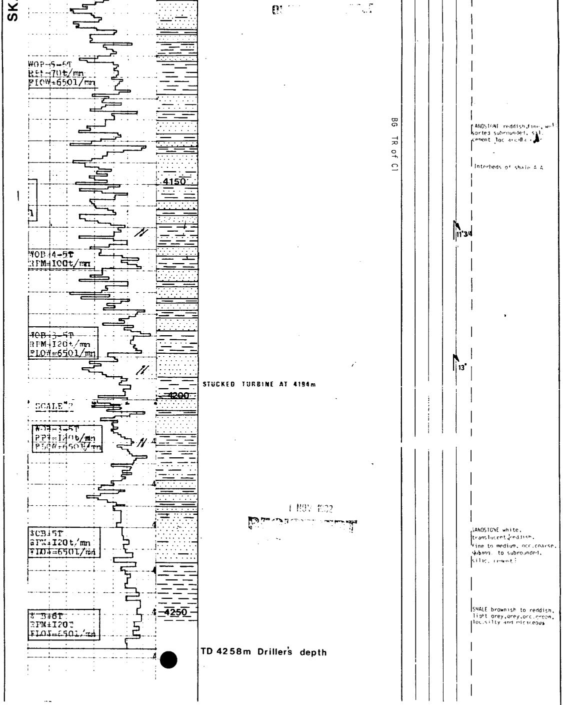




1 NOV 1982

Hugin





ISF - GR - BHCSL

1. 132 - 934 m
2. 921 - 2831 m
3. 2819 - 3708 m
4. 3682 - 3838 m
5. 3682 - 3949 m
6. 3948 - 4094 m
7. BHC 3948 - 4094 m

LDT - CNL - GR - CAL

1. 192 - 931 m
2. 921 - 2825 m
3. 2819 - 3702 m
4. 3682 - 3839 m
5. 3682 - 3949 m
6. 3940 - 4096 m

MSFL - DLL - GR - CAL

1. DLL 3682 - 3949 m
2. DLL 3682 - 3935 m

CYBERLOOK

1. 3775 - 3830 m: 18/1-82

HDT/CYBERDIP

CST

1. 2819 - 3706 m 2. 3682 - 3946 m 3. 3948 - 4095 m	Run 1: 3700 - 2650 m 23/30 Run 2: 3949 - 3720 m 15/30 Run 3: 4095 - 3949 m 8 /24

RFT	OTHER LOGS
RFT 1: MISRUN - FAILED RFT 2: 35 PRESSURE TESTS SAMPLING AT 3802,5 m/3850.2 m RFT 3: 4 PRESSURE TESTS SAMPLING AT 3823.5 m	BGT: 921 - 2823 m CBL: 175 - 2819 m CBL: 3382 - 3682 m NGT: 3682 - 3946 m CBL: 3436 - 3944 m

PRESSURE MEASUREMENTS

SHOT	DEPTHS RKB	DEPTHS MSL	HYDROSTATIC PRESSURE PSIG	FORMATION PRESSURE PSIG	EQUIVALENT DENSITY kg/cm²/m	REMARKS
1	3786.8	3761.8	9322	-	-	TIGHT
2	3789.5	3764.5	9330	8250	1,540	
3	3794	3769	9342	-	-	TIGHT
4	3797.7	3772.7	9349	8257	1,538	
5	3798.7	3773.7	9352	8259	1,538	
6	3801.2	3776.2	9357	8259	1,537	
7	3802.5	3777.5	9362	8261	1,537	
8	3804	3779	9366	8263	1,537	
9	3806.5	3781.5	9370	8220		SUPERCHARGE
10	3809.5	3784.5	9378	-	-	TIGHT
11	3814.5	3789.5	9390	8272	1,534	
12	3820.5	3795.5	9404	-	-	TIGHT
13	3822.2	3797.2	9411	8225	1,523	
14	3823.2	3798.2	9411	8227	1,523	
15	3850.2	3825.2	9477	7754	1,425	SAMPLING
16	3854.5	3829.5	9490	7761	1,425	
17	3872.8	3847.8	9535	7669	1,401	
18	3905.6	3880.6	9613	7716	1,398	
19	3907.4	3882.4	9620	7772	1,407	
20	3915.2	3890.2	9640	8340	1,507	TIGHT ?
21	3919.2	3894.2	9681	-	-	TIGHT
22	3924.4	3899.4	9662	-	-	TIGHT
23	3928.6	3903.6	9673	7575	1,364	
24	3930	3905	9677	7577	1,364	
25	3915.2	3890.2	9643	8112	1,466	TIGHT

TEST RFT FIT	DEPTH RKB	FLOWING	BUILD UP PRESSURE	BHT
TEST	3789 3807.5	615 m^3/d OIL (41.5 API) 245,224 m^3/d GAS (7.4% CO_2-NOH_2S) G F 399 m^3/m^3	8262 PSIG at 3800m	262°F
RFT	3802.5	10.3 liters of water/mud/filtrate (Nacl: 35 g/l)	8258 PSIG	
FIT 3	3822.5	10 liters of water w/dissolved gas (Nacl: 28.5 g/l)	8190 PSIG	
RFT	3823.5	Water/mud/filtrate No liters (Nacl: 32,8 g/l)	8225 PSIG	
FIT	3850	DRY TEST		
RFT	3850.2	GAS AND WATER (Nacl: 31.5 g/l)	7749 PSIG	
FIT 2 bis	3852.6	APP. 5 liters of GAS APP. 3 liters of OIL (43.8 API) APP. 2 liters of Emulsified OIL and WATER	7650 PSIG	
FIT 1	3873.5	APP. 3 liters of GAS APP. 4 liters of OIL APP. 3 liters of Emulsified OIL and WATER	7699 PSIG	