SIMON PETROLEUM TECHNOLOGY

WELL: 33/9-7

Print: 2265 G	**Units:** [✓ M] F	**Top**	**Bottom**	**Scale**	**TD**
Length: 30 FT	**Initials:** ARC	240	3135	1/500	3127

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY
SPT

COMPLETION LOG

ENCLOSURE 3

MOBIL EXPLORATION NORWAY INC.

WELL 33/9-7

G

Completion – 0

14 MAR 1977
REGISTRERT
OLJEDIREKTORATET

WILDCAT

Øverste del
av brønnen: 240 – 140
Nedre del. 140 – 40

FINAL COMPOSITE LOG

CO-ORDINATES: 61°20'12,174"N
01°59'12,672"E

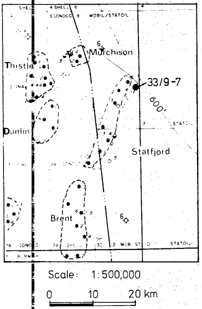
ELEVATION: **KB** + 25.5m **SEA FLOOR** -155,5m

TOTAL DEPTH: 3127 m

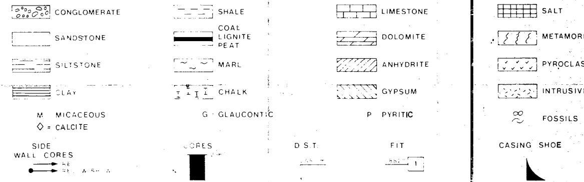
RIG: DYVI ALPHA

SPUD DATE: 11 SEPTEMBER 1976 **RIG RELEASE:** 8 NOVEMBER 1976

WELL STATUS: **DISCOVERY WELL, P&A**

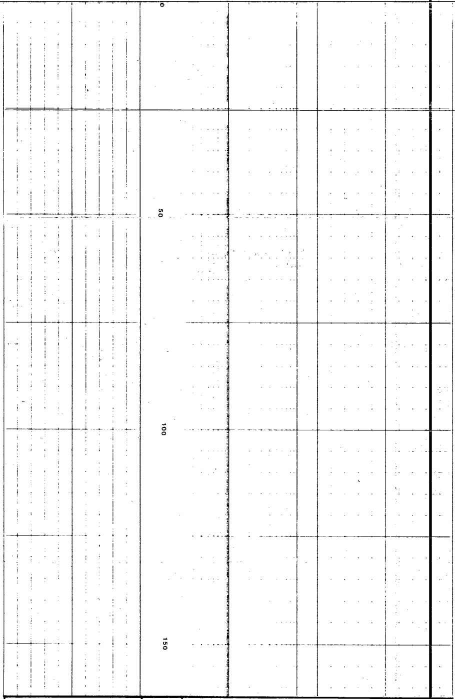


LITHOLOGY SYMBOLS



20 AT 616 m

KELLY BUSHING 0 m
25.5 m



MEDIUM SEA LEVEL 25.5 m
0 m

SEA BOTTOM 181 m
-155.5 m

SPONTANEOUS POTENTIAL
millivolts
10
5 (run 2

Depths
1/500

RESISTIVITY
ohms - m^2/m

DEEP INDUCTION RILD
0 2 1 0 10 100 1000 2000

FOCUSED RESITIVITY RSFL
0 2 1 0 10 100 1000 2000

TIME MARKER(Run3)
X=LOGGING SPEED
m/min

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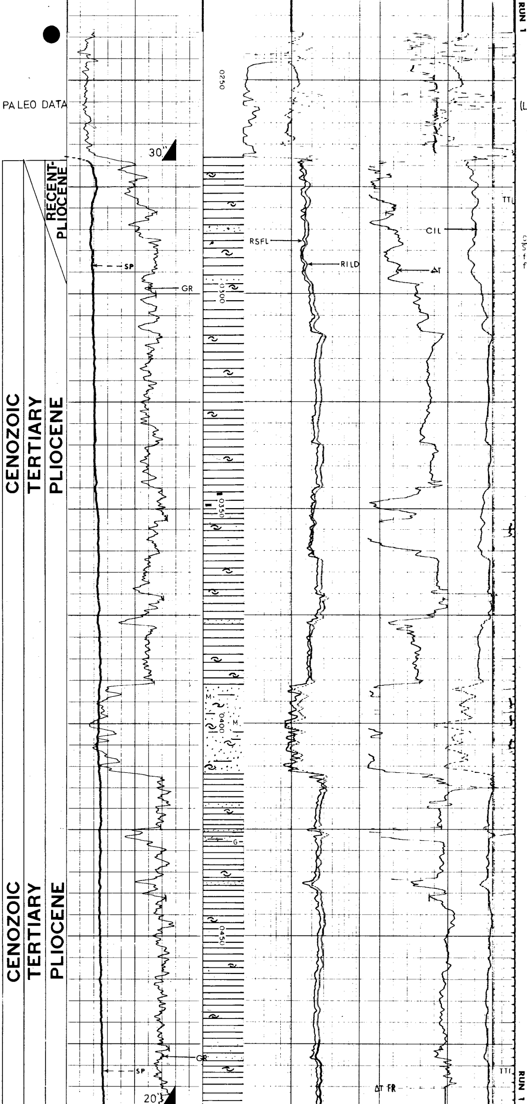
OLJEDIREKTORATET

CONDUCTIVITY
2000 0

GAMMA RAY
api units
0 100

INTERVAL TRANSIT TIME Δt
microsecond per foot
INTEGRATED TRANSIT TIME
1 Millisecond
10 Milliseconds
140
240

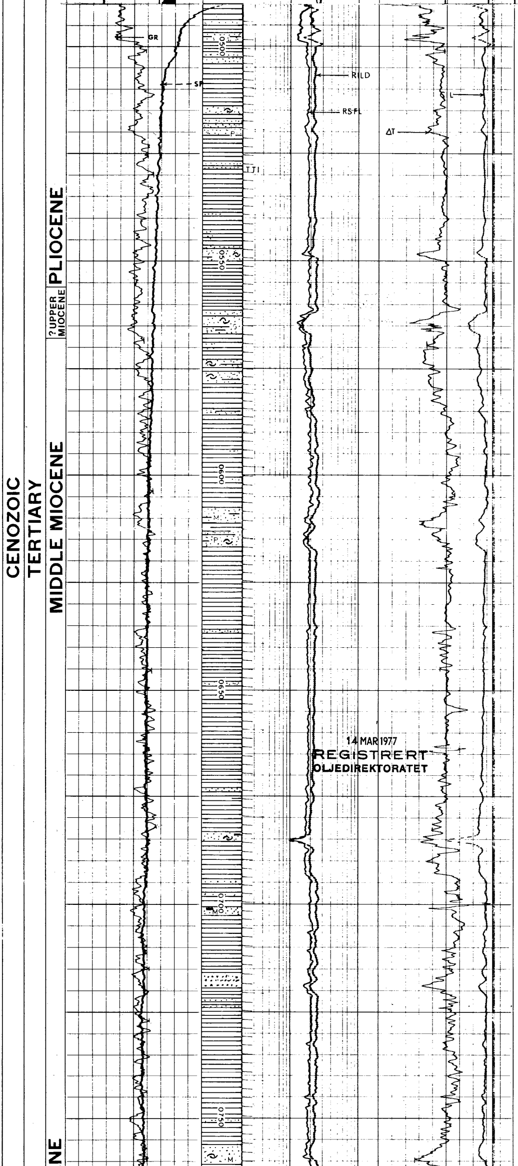
TTI
40
140



(L) = LOG PICK

Clay, gy, sft, stcky w/minor Sand, clr, wh, crse, occ m-fn, mod srtd, SA, lse, gd por, foss

Sand, clr, m, m. srtd, A, mic, lse, gd por.



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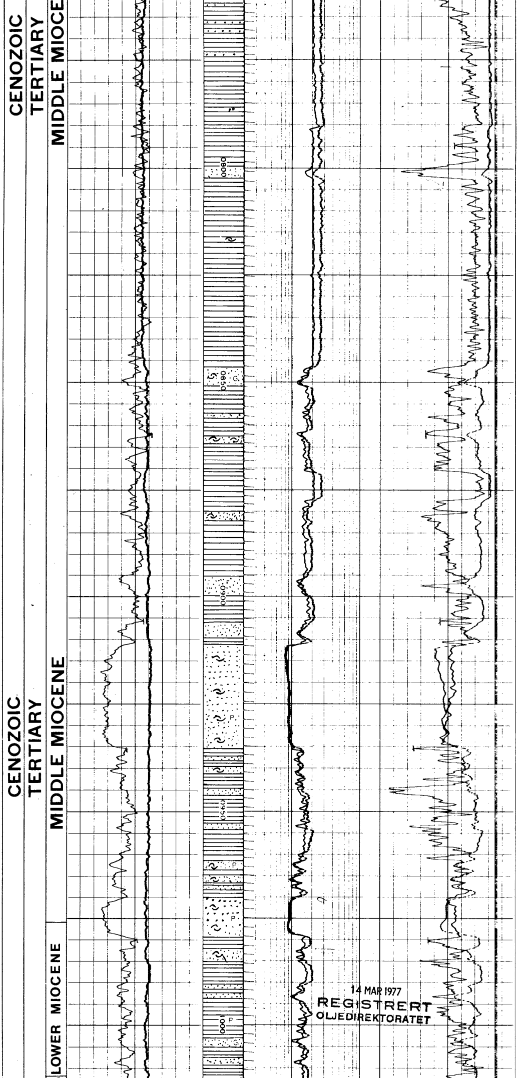
Clay, gy, sft intbdd Sand, clr, m, occ fn, mod srtd, SA, gd por

tr Glauc, carb.

tr Pyr.

tr biotite



Clay a/a
occ sl calc

Clay gy, sft. intbdd minor Sand, clr. m grnd, fn-c, mod srtd, SR, pyr, abd shell frags, V gd Ø.

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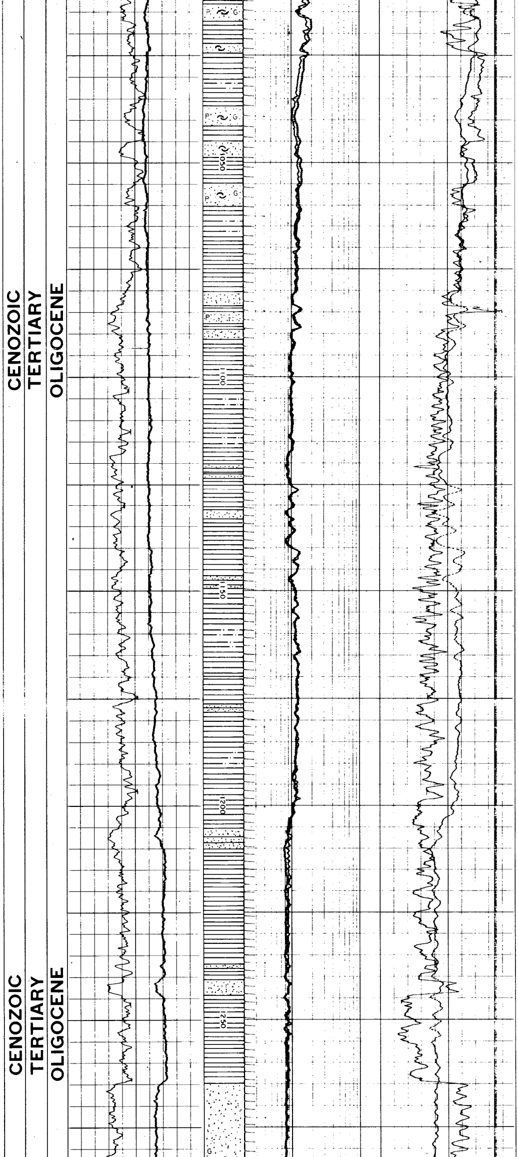
OLJEDIREKTORATET

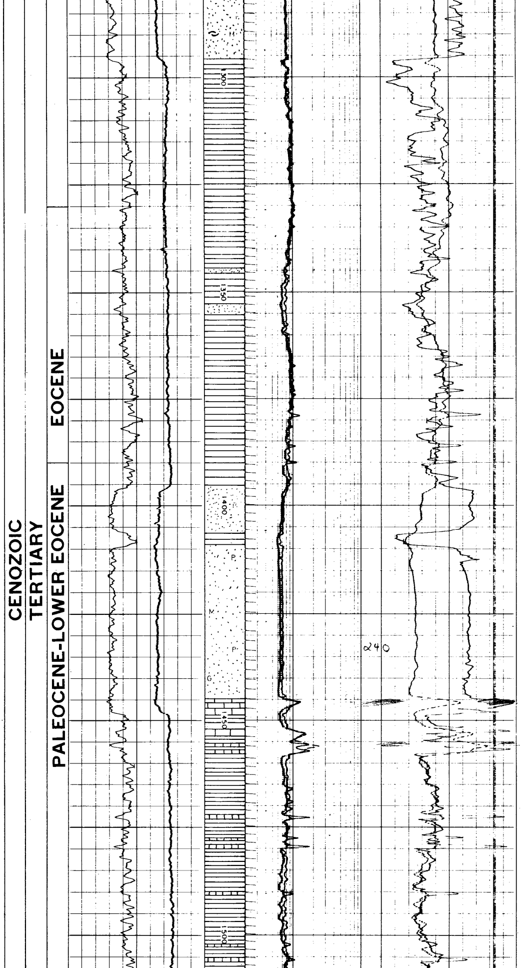


Clay, slty, gy, lt brn, yel,
sft, occ r hd.
Interbedd minor Sand a/a,
occ grn

Claystone sl slty, lt gy brn,
sft

Sand, clr, f, SR, mod srtd,
lse. fr por
Clystone sl. slty, olive gy
grn, sft

Sand, clr, m, fn-c, SR occ R,
mod srtd, gd tr Muskovite, tr
glauc, sl tr Shell frags, gd
D

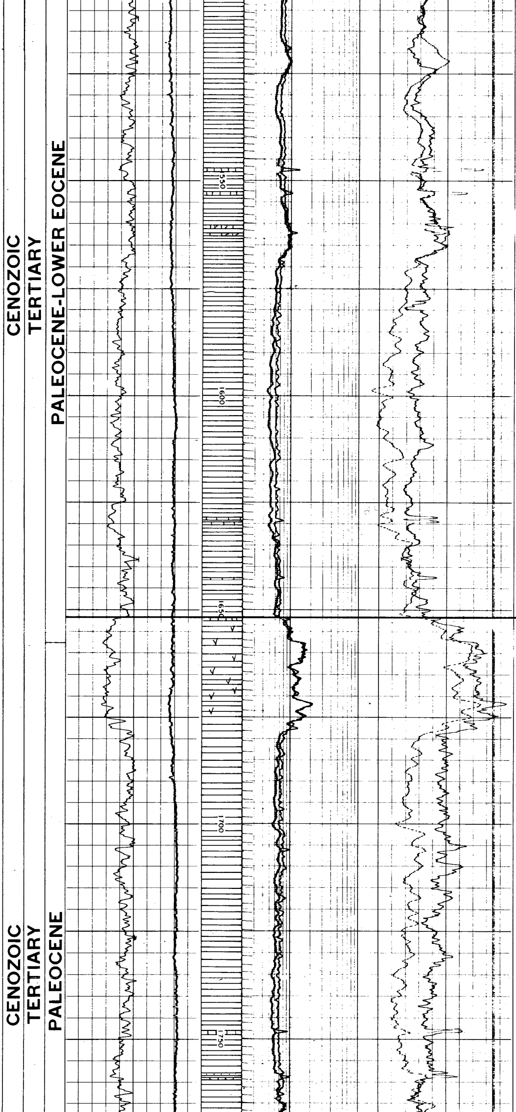


Sand a/a

140

Calcilutite: wh,tan,firm,hd when tan,tight,occ grdg Calcarenite

Claystone a/a



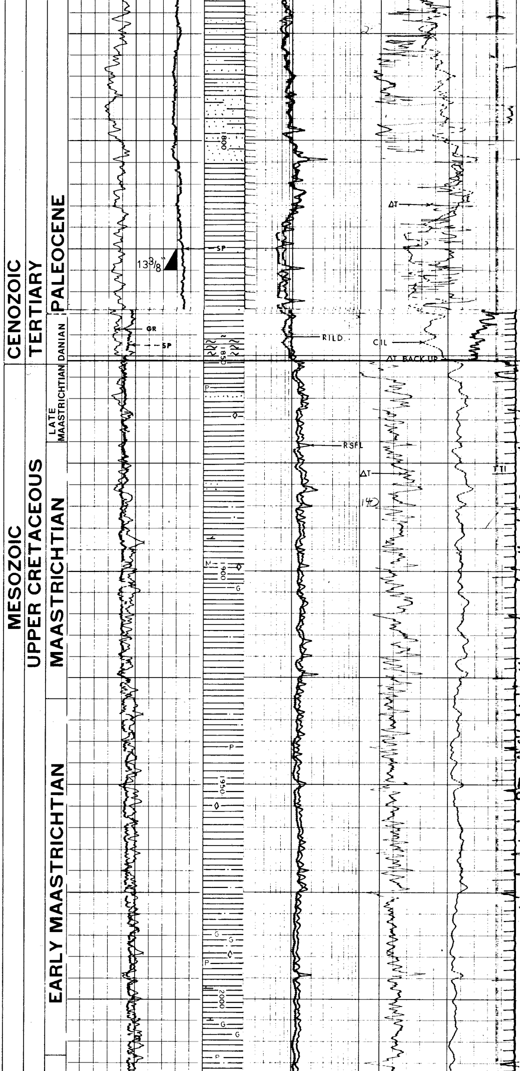
Claystone, lt brn, sft

Calcilutite, wh-yel-gy,firm,
occ hd,minor sft & chky,
generally tight,tr
Dololutite,tan,hd,v tight

1651.7m

TOP PALEOCENE(L) -1626.2m

Clay, tuffaceous,lt-m gy,
mottled w/wh specks, firm



140

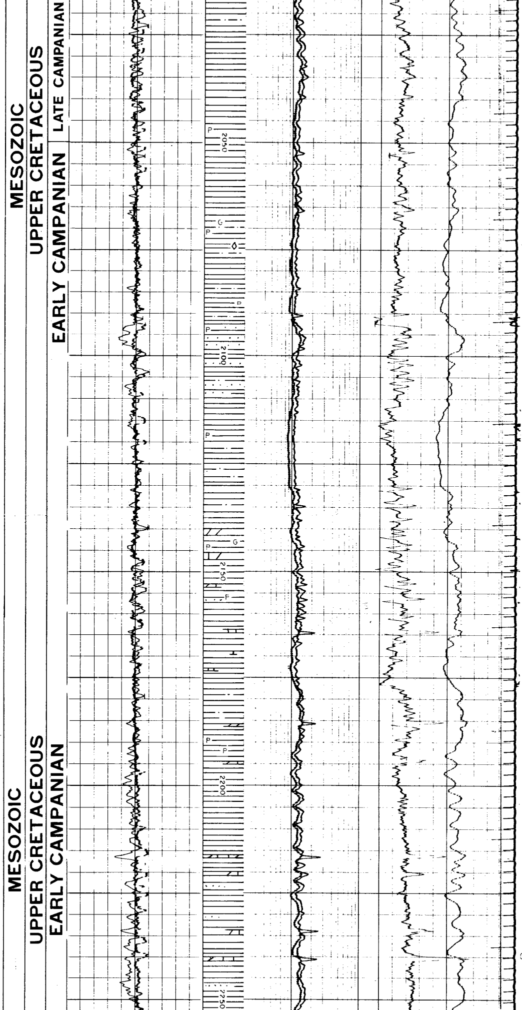
Sandstone, clr,wh,fn,occ vfn,SA, well srtd,occ calc cmtd,fr-gd por, lt brn oil stn, bri yel flor, fast wh flash cut,wh streamy cut, intbdd Claystone a.a.

Marl, rd,occ gy,sft 1851.2 m

TOP UPPER CRETACEOUS(L)-1825.7m

Clay, gy occ brn, grn, blky, firm, sl calc

14 MAR 1977
REGISTRERT
OLJEDIREKTORATET



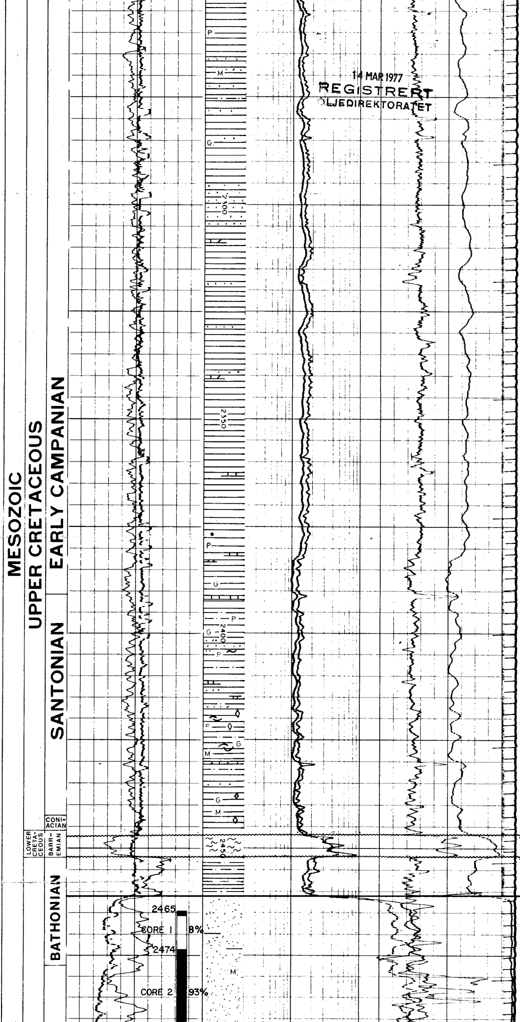
tr glau

Sandstone, gy, v fr, p srtd
R, pyr, carb, fri, fair -
p por

Dololutite, tan, hd

Calcilutite, tan occ gy, hd

Clay, dk gy, sft



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OLJEDIREKTORATET

Claystone, slty, gy, gy grn, firm

Sandstone, gy. vfn. p srtd
R, p por. pale brn stn, pale
yl fluor, slow oozing cut,
fast wh crush cut

Claystone, m-dk gy

Calcilutite, arg, tan, hd

Claystone, slty, gy, firm.
tr claystone, rd, [illegible]
Sandstone, lt gy, v f . SR,
fr srtd, occ calc c td. mic
glauc, fr por, no show.

Calcilutite, lt gy, sft. pyr
tr calcirudite, clr, hd.

Foss.

2447m

TOP LOWER CRETACEOUS -2421.5m

Marl, wh, pink, brn, am, firm

2452m

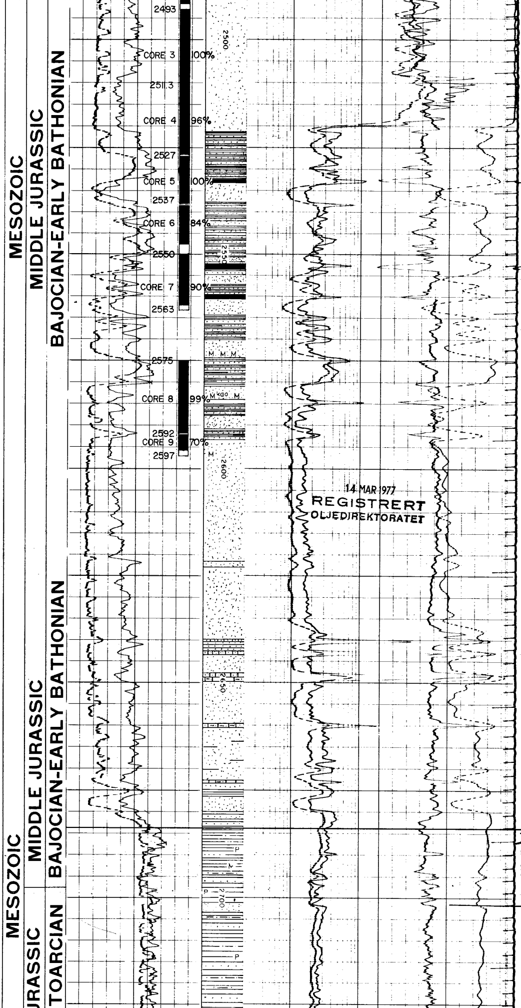
TOP JURASSIC COLD SHALE -2426.5m

Claystone, slty. m gy. firm

2461m

TOP BRENT FORMATION -2435.5m

Sandstone, clr. gy brn, fri,
ranging vfn - v crse, max 2mm
grn size. R-SA, fair srtd,
mic, pyr, fri-lse, v gd por.
good oil show: oil odor, lt
brn stn. yl fluor, lt bl fast
cldy cut, lt brn res colour
good oil in mud



Coal, blk. conch frac. brit
Claystone, gy. mic, occ wxy surf, sb fiss. pyr, intbdd & interlam Sandstone, slty, lt brn clr, v fn-fair srtd SA, fri. g por. fair oil show: weak oil odor. lt brn str . dull yl-yl fluor lt bl cloudy m fast cut. tr lt brn res colour.

Sandstone. lt gy brn, fn. grd r,w srtd. SA-SR. fri -lse v gd por. poor oil show vy weak oil odor, dull yl fluor w/yl spots, lt bl streamy cut

Sandstone, lt brn. gy. fn-m fr srtd, SA, mic. kaoline, hd, occ fri. g por. dull yel gold fluor, slow strmy cut

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OLJEDIREKTORATET

Sandstone a.a. no show

Calcilutite, slty, bl gy, hd

Calcilutite, slty, aren, wh firm

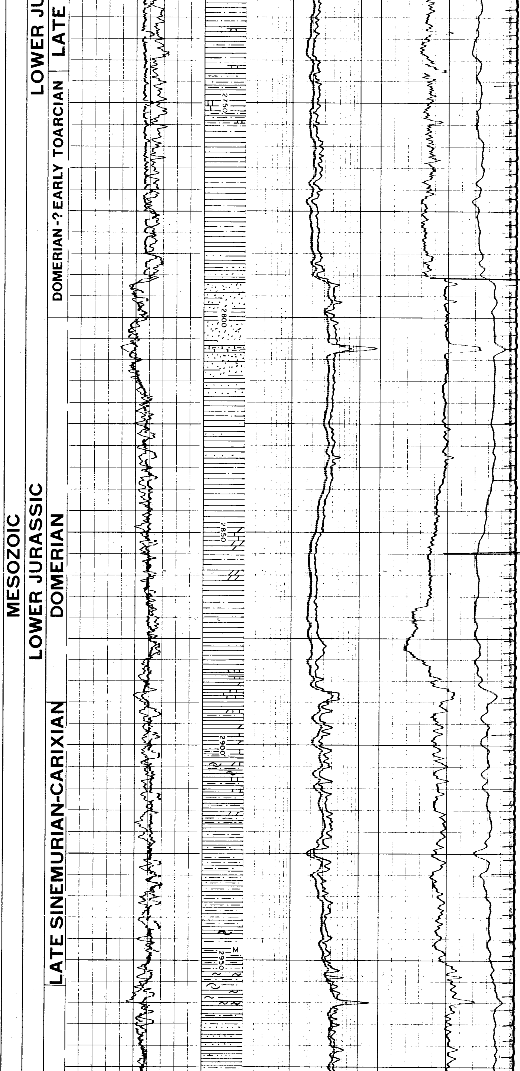
2683.5m
- 2658.0m

~~TOP DUNLIN~~
Claystone, slty, gy, mic, minor

Siltstone, gy, occ brn, mic calc firm. pyr.

Top Dunlin

tr interbd sandstone, clr gy. fn, SA, m srtd, calc cem lse, fair por



Calcilutite, slty, aren,
gy-tan, hd

Claystone. slty. dk gy. sb
fiss. firm

Top Dunlin sst

Sandstone, arg. gy. lt
brn. v fn, occ fr, SA,
w srtd, calc cmtd, hd,
occ fri, fr-p por. no show

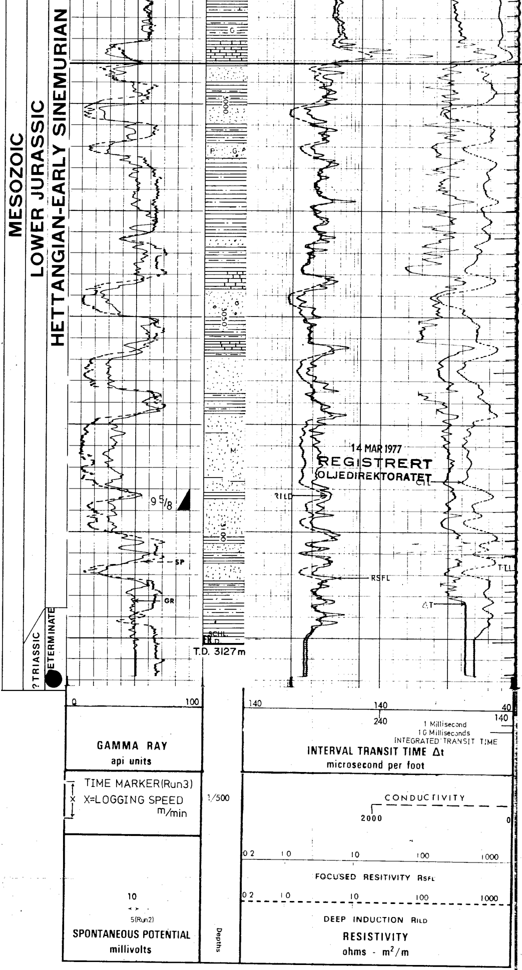
Bum Dunlin sst.
2854

Dololutite, dk brn, tan,
v hd

Calcilutite, occ calcarenite
slty, tan, cream, hd, tr
dololutite, tan, hd occ ch-
alky, calcilutite, wh, firm

Siltstone, blk, carb, mic,
blocky, firm, tr forams
and chrinoids

tr Marl, slty. lt gy, sft.



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REGISTRERT
OLJEDIREKTORATET

Claystone, slty, dk gy, mic
fiss firm
Calcilutite, wh-lt gy, firm
Calcarenite, tan, m hd - fri
no por, Pyr, glauc

2985.8m

TOP STATFJORD FM(L) -2960m

Sandstone. qtz, clr, v fn -
crse. p srtd,
A-SA, calc cmtd. hd, p por ,
no show

Claystone, slty,vgt col,subfiss,hd

Sandstone, cong,wh,clr,m-v crse,A,
p srtd,sil cmtd,glauc,pyr,kao mtx,
fr por,no show

Claystone dk brn-dk gy, sb
fiss. hd.

Claystone. sdy, vgt col,
m hd.

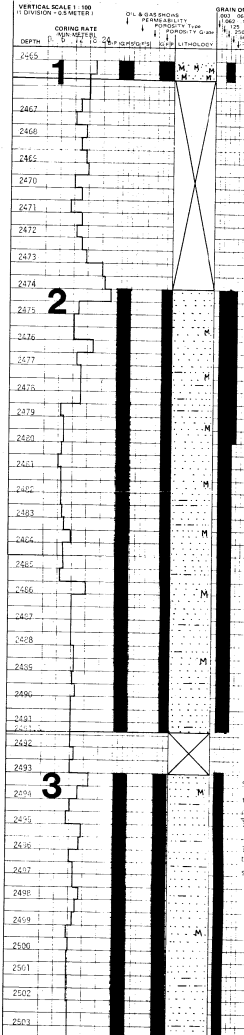
tr Siltstone, sdy. lt grn gy
glauc, kao, mic fri - m hd,
no vis por

Claystone, occ sdy, rd, gt
col, firm

Mobil Exploration Norway Inc.

GRAPHIC CORE LOG

COMPANY Mobil
WELL 33/9-7
FIELD Wildcat
CORE NO 1 through 7
FROM 2465 M TO 2563
% RECOVERED 82.9 v 84%
FORMATION Brent
DATE 7 - 11 October 1976
DESCRIBED BY A.L.

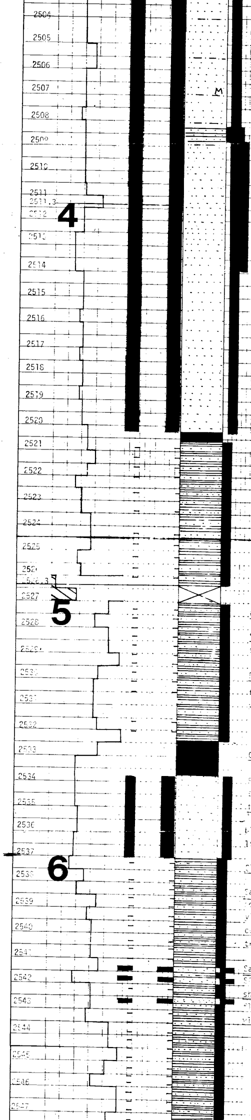


REMARKS

Sand/Sandstone, lt brn, clr, m, SA, fr srtd, v mic, lse - fri, fr - good por, lt brn staining, yl fluor, lt bl cloudy slow cut. lt brn res ring

Sandstone, occ slty, lt brn (staining), clr, m, ranging v fine-crse, SA-SR, fair srtd, mic, fri, fair porosity, good oil show throughout core: yl flour, lt bl fast cloudy cut, lt brn res colour, strong oil smell

Sandstone, occ slty, lt brn, clr, v fn, tr mic, [illegible] srtd, good-ex por.
Good oil show
lt brn stng
yl fluor
lt bl fast cloudy cut
brown res colour
strong oil smell



Sandstone aa, intbdd.

Claystone, dk-mgy, sb fiss, mic, firm.

Sandstone, lt brn, clr, m, SA-SR, fr [illegible], tr mic, fri, tr mic, ex por [illegible]

Sandstone, lt brn, clr, m, SA. well srtd, tr mic. lse-fri, ex por. Good oil show: strong oil odor, lt brn stn, yl fluor, lt bl fast cloudy cut, brown res colour

Sandstone, lt brn, clr, fine grained, well srtd, SA. some thin layers w/bigger mica flakes, fri-lse, good-ex por
Good oil show A.A.

Coal, blk, conch frac, brit.

Sandstone, slty, v. fn, fair srtd, SA, mic, fri, fair-por, intbdd

Claystone: gy mic, [illegible], firm-hd nice crossbeddings averages 15°
fair-poor oil show: weak oil odor, dark yl-lt brn fluor, lt bl cloudy medium fast [illegible]

Claystone, gy, [illegible], carb, fiss, hd intbdd

Sandstone, slty, dk gy brn, v fn, poor srtd, SA-[illegible], v mic, carb, hd, poor, por.

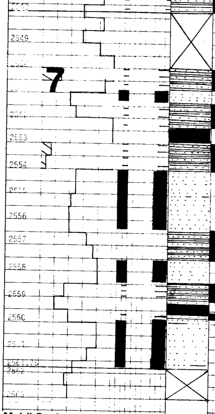
Poor oil show: weak oil odor, dk yl-lt brn fluor, bl wh slow strmy-cloudy cut, lt yl crush cut. very weak lt brn res ring

Coal, blk, conchoidal frac, brit

Sandstone, lt brn, clr, vfn, occ fn, well srtd, [illegible] tr mic, lse-fri, good-ex por,
fair-poor oil show: oil odor, occ weak [illegible] with dk yl fluor,
bl [illegible] strmy-cloudy cut, lt bl crush cut, lt brn res colour.

Claystone, sa, [illegible] dk gy, mic, carb, fiss [illegible] laminated.
Sandstone, slty, lt brn, clr, v fn, A, poor srtd, poor por, poor oil show: yl - [illegible] brn fluor, [illegible] fast strmy cut leaves [illegible] ring in spot plate, tr lt brn res colour

Sandstone, lt brn, clr, v fn-m, fair srtd SA, tr mic, lse, good por, fair-good oil show: oil odor, lt brn stn, weak yl brn fluor, weak lt bl slow strmy cut, turns lt yl when crushed. lt brn res colour.



Claystone, gy, mic, carb, fiss, hd occ wxy surf, intbdd thin lamina of Sandstone, silty, clr-wh-lt brn, v fn, fair srtd, [illegible], mic, tr carb, hd (fri) fair por. poor oil show: dull yl fluor, lt bl slow strmy cut Coal, blk, plant foss brit

Sandstone, clr-lt gy brn, m grdd [illegible], well srtd, [illegible] SR, fri, ex por, fair oil show: irregular lt brn staining, yl brn fluor w/yl spots, lt bl fast strmy cut

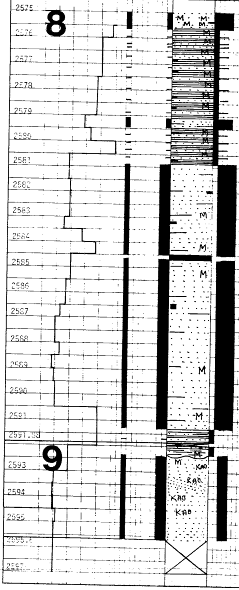
Sandstone, lt gy brn, clr, fn grdd m, well srtd, SA-SR, fri-lse, ex por, poor -fair oil show: oil odor close to nose, resembles water odor at 10 cm distance, yl brn fluor w/yl spots, lt bl strmy cloudy cut, which turns white when crushed, leaves white ring in uv light.

Mobil Exploration Norway Inc.

GRAPHIC CORE LOG

COMPANY Mobil
WELL 33/9-7
CORE NO 8 & 9
FROM 2575
TO 2597
FORMATION Brent
FIELD Wildcat
RECOVERED 20.5 M 93 %
DATE 13 Oct. 1976
DESCRIBED BY N.T & A.L.

VERTICAL SCALE 1 : 100
(1 DIVISION = 0.5 METER)



REMARKS

Sandstone, lt gy-blk, fn, poor srtd, SA, extremely micaceous & carb poor show, some spots & yl fluo. weak bl wh slow strmy cut

Claystone, sdy, dk gy, very mic & carb hd, fissile, interlam fine streaks of Sandstone, wh clr, fn, SA, poor srtd poor - no por, the sand streaks have dull yl fluor, bl wh, slow strmy cut

14 MAR 1977
REGISTRERT
OLJEDIREKTORATET

Sandstone, cly, lt gy (lt tan) occ clr, wh, fn ranging v fn - crse, fair srtd, [illegible], tr carb & mic, fri-hd, fair por, poor oil show: dull yl fluor bl wh fast [illegible]

Coal, blk, brit

Sandstone, cly, lt gy (lt tan) occ clr, wh, fn, ranging v fn - crse, fair srtd, SR-SA, tr carb, white clayey mtx, kao, fair - por, poor oil show: spotted yl fluor covering 50% of sample surface, bl wh fast strmy cut

LS: [illegible], slt, [illegible], dns, SS [illegible] mica, carb [illegible]

SS, [illegible] gy, f-m grnd, SA, kaol, [illegible] mica, hd-firm, p-fr Ø, dull yell fluor, dk yel slow strmg-cldy cut fluor, no stain, no res.

SUMMARY OF TESTING OPERATIONS

WELL 33/9-7

DST No I

Formation:	Middle Jurassic Brent Fm
Perforated interval:	2489.9 - 2493m
Bottom choke size:	2"
Cushion:	Fresh water to surface
Gas to surface:	37 mins
Oil to surface:	42 mins

Production Data:

Choke	WHP(psi)	BOPD	GOR	Oil Gravity	Gas Gravity
48/64"	1890	6791	524	37.7° API at 60°F	0.69

DST No 2 (Misrun)

Formation:	Lower Paleocene
Perforated interval:	1780 - 1800m
Result:	The test did not flow formation fluid to surface. (Perforations plugged)

DST No 3

Formation:	Lower Paleocene
Perforated interval:	1780 - 1800m
Bottom choke size:	2"
Cushion:	Diesel to surface
Mud to surface:	8hrs 18mins
Oil to surface:	10hrs 28mins (trace only)
Production Data:	720 BFPD through ½" choke

Pressure Data:

Initial shut-in pressure after circulating test string full of diesel (7 lb per gal.) and pumping 10 barrels into formation.	2360 psig
First flowing period 8/64" choke (5mins).	1770 psig
First shut-in period (26mins).	1849 psig
Second flowing period 14 hrs.	70-100 psig