SIMON PETROLEUM TECHNOLOGY

WELL: 6407/9-6

Print: 6291 J	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 13 FT	Initials: JPK	365	1800	1/500	1796

DIGITAL WIRELINE LOGS PACKAGE
1993
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SIMON PETROLEUM TECHNOLOGY SPT

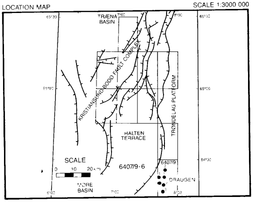
COMPLETION LOG

A/S Norske Shell, E & P

COMPLETION LOG WELL: 6407/9-6

LOCATION MAP

SCALE 1:3000 000



MUD LOGGING CONTRACTOR: GEARHART

SHELL GEOLOGIST: R. SEMPLE (GEARHART) M.J.B.G. GOESTEN

LICENCE 093

FIELD DRAUGEN

COORDINATES 64°19' 58.07"N 07°44' 23.70"E

SPUD DATE 02.01.86

COMPLETION DATE 12.03.86

RIG BORGNY DOLPHIN

CONTRACTOR DOLPHIN

K.B.ELEVATION 25m

WATER DEPTH 276m

T.D. (DRILLER) 1800m

T.D. (LOGGER) 1796m

T.D. FORMATION UPPER DRAKE FORMATION EQ.

STATUS SUSPENDED

CASING RECORD 30" at 375 mbdf, 20" at 804 mbdf
13 3/8" at 1619 mbdf, 9 5/8" at 1776 mbdf

21 AUG. 1986
REGISTRERT
OLJEDIREKTORATET

LITHOLOGY SYMBOLS

▢	CLAY	▢	MARL
▢	CLAYSTONE	▢	CHALK
▢	SHALE	▢	LIMESTONE
▢	SILT	▢	DOLOMITE
▢	SILTSTONE	▩	SALT
▢	SAND	▢	GYPSUM
▢	SANDSTONE	▢	ANHYDRITE
■	LIGNITE/COAL	▢	TUFF
▥	CARBONACEOUS	▽	CHERT
▢	BITUMINOUS	▢	FOSSIL,FRAGS,GEN.
▢	GRAVEL/CONGLOMERATE		

HYDROCARBON INDICATIONS

○	WEAK OIL SHOWS	↑	WEAK GAS SHOWS
○○	STRONG OIL SHOWS	↑↑	STRONG GAS SHOWS
●	PROVED PRODUCTIVE	☼	PROVED PRODUCTIVE

	LOG AND RUN NO.	DATE	MEASURED	BIT SIZE	BHT OF	MUD TYPE	MUD SG	MUD RESISTIVITY/°F	MUD FILTRATE RESISTIVITY/°F
✓	DIFL/ACL/GR 1	08.01.86	278-808	14 3/4	116	Seawater/Bent	1.12	0.096/65	0.080/65
✓	CDL/CN/GR 1	08.01.86	365-807	14 3/4	118	"	1.12	"	"
✓	DIFL/ACL/SP 2	19.01.86	675-1607	17 1/2	112	KCL/POLYMER	1.39	0.065/68	0.055/71
✓	CDL/CN/GR 2	19.01.86	785-1603	17 1/2	117	"	1.39	"	"
✓	DIFL/ACL/GR 3	28.01.86	1572-1799	12 1/4	110	Chalk mud	1.21	0.073/68	0.064/66
✓	CDL/CN/GR 3	28.01.86	1572-1799	12 1/4	120	"	1.21	"	"
✓	DLL/MLL/GR 1	28.01.86	1612-1795	12 1/4	129	"	1.21	"	"
	D plog 1	29.01.86	1616-1794	12 1/4	134	"	1.21	"	"
	FMT-HP 1	29.01.86	12 pre-tests. Sample at 1652.5 m bdf						
	Velocity survey								
	SWS 1	29.01.86	Recovered 26						
	SWS 2	30.01.86	Recovered 3						
	SWS 3	30.01.86	Recovered 11						

TIME STRATIGRAPHY: SYSTEM, SERIES, STAGE

LITHOLOGICAL STRATIGRAPHY: GROUP, FORMATION, SIDEWALL S.

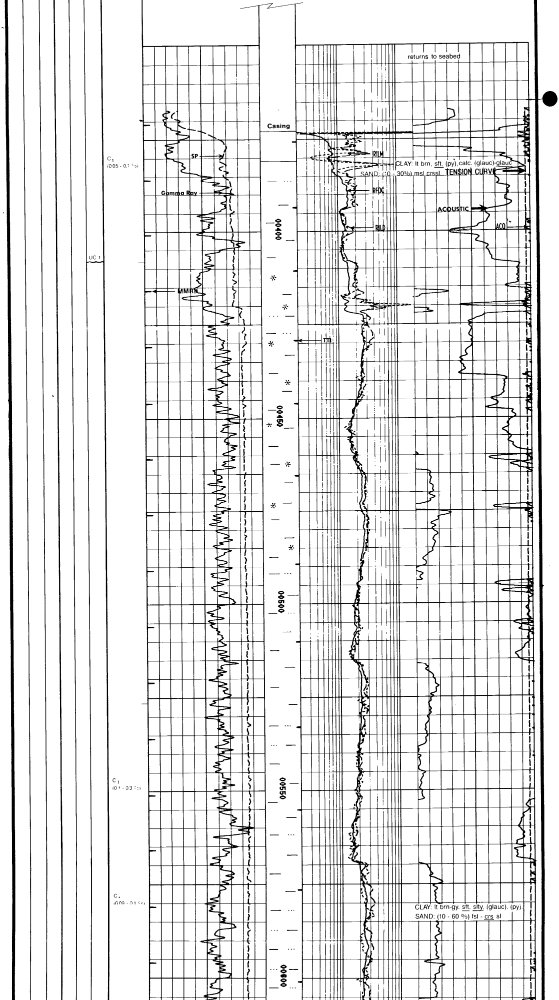
HYDROCARBON EVALUATION

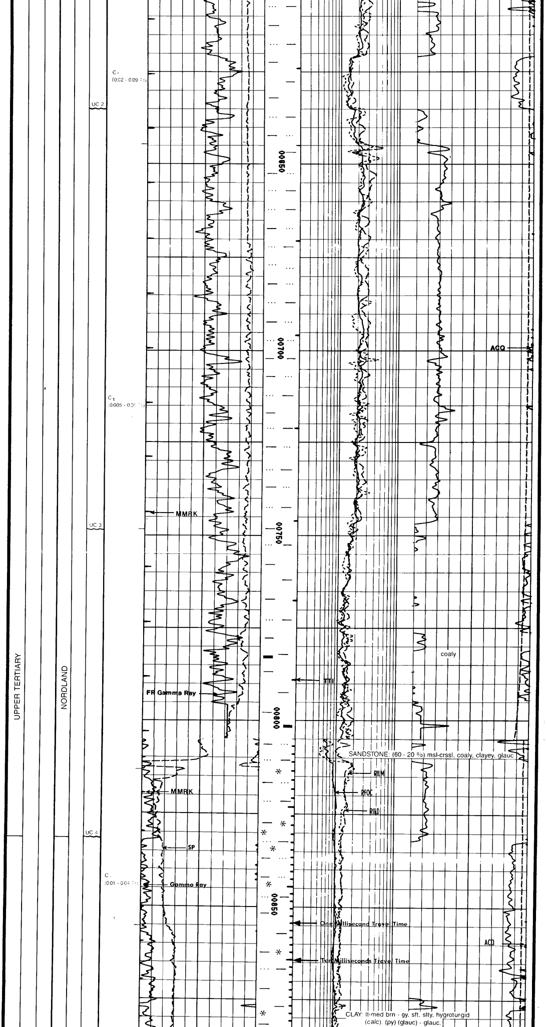
GR (GAPI) 0.0 – 100.00
SP (MV) -80.00 – 20.000

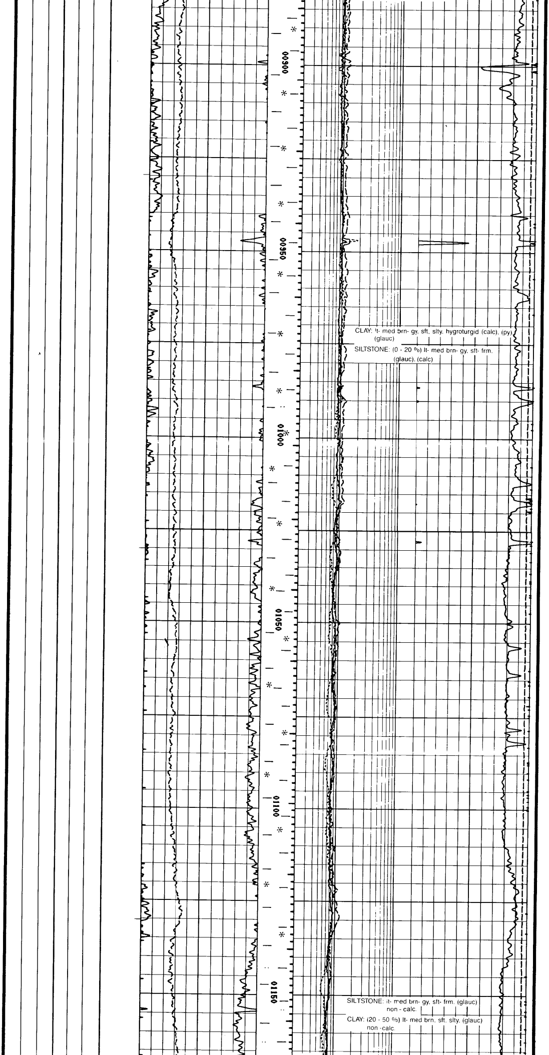
ILD (OHMM) 20.000 – 2000.0
SFLU(OHMM) 20.000 – 2000.0
ILD (OHMM) .20000 – 20.000
SFLU(OHMM) .20000 – 20.000

DTL (US/F) 240.00 – 140.00
DTL (US/F) 140.00 – 40.000
DT (US/F) 240.00 – 140.00
DT (US/F) 140.00 – 40.000
TENS (LB) 10000. – 0.0

SEABED
301m





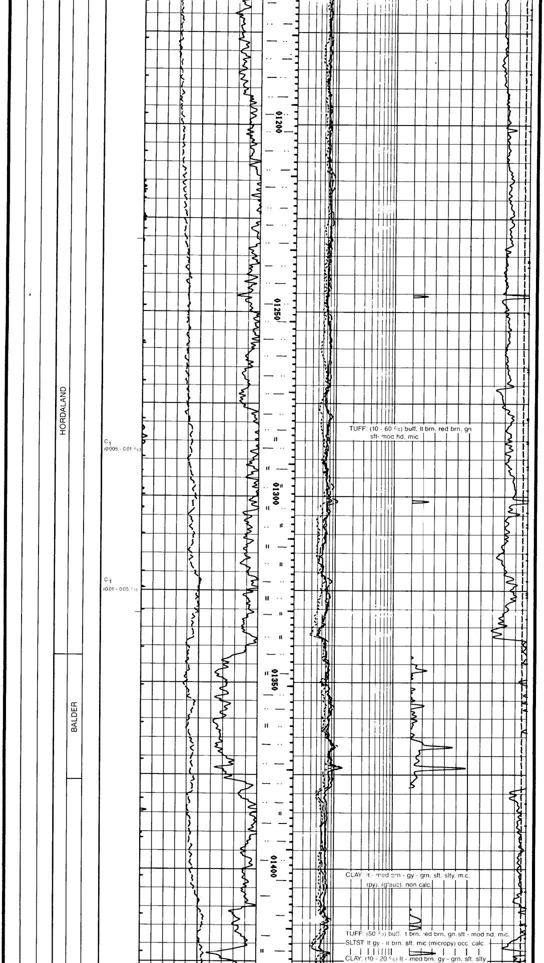


CLAY: lt- med brn- gy, sft, slty, hygroturgid (calc). (py)
(glauc)

SILTSTONE: (0 - 20 %) lt- med brn- gy, sft- frm.
(glauc). (calc)

SILTSTONE: lt- med brn- gy, sft- frm. (glauc)
non - calc.

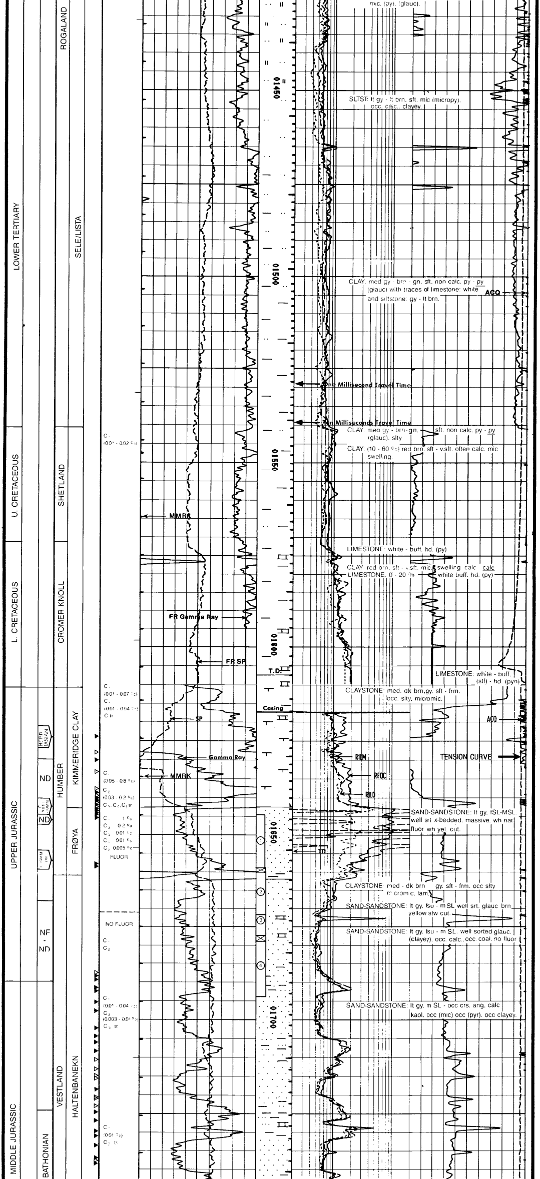
CLAY: (20 - 50 %) lt- med brn, sft, slty, (glauc)
non -calc.

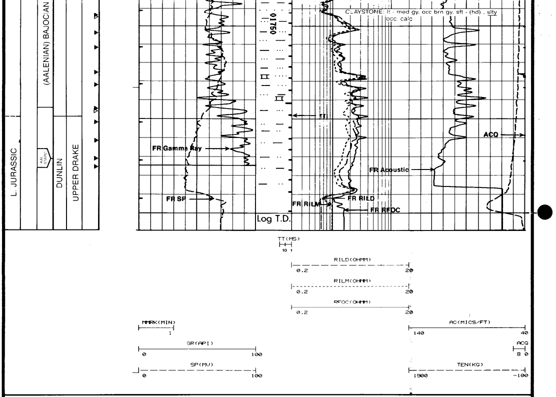


TUFF: (10 - 60 %) buff, lt brn, red brn, gn
sft- mod hd, mic.

CLAY: lt - med brn - gy - grn, sft, slty, m.c.
(py), (glauc), non calc.

TUFF: (50 %) buff, lt brn, red brn, gn, sft - mod hd, mic.
SLTST: lt gy - lt brn, sft, mic (micropy) occ. calc.
CLAY: (10 - 20 %) lt - med brn, gy - grn, sft, slty





CORE NO 1	1646.0 - 1660.0m	RECOVERY 84 %
CORE NO 2	1660.0 - 1672.7m	RECOVERY 100 %
CORE NO 3	1672.7 - 1678.8m	RECOVERY 70 %
CORE NO 4	1678.8 - 1693.3m	RECOVERU 78 %

TESTING
FRØYA FORMATION
PERFORATED INTERVAL: 1618 - 1631mss
OIL PRODUCTION: 6400 Stb/d
SEPARATOR GOR: 103 scf/stb
CHOKE SIZE: 56/64"
OIL GRAVITY: 40° API
GAS GRAVITY: 0.810 (AIR=1)
CO_2 CONTENT: 0.6%

RFT PRESSURE GRADIENTS

1618.5 - 1637 mss	0.325 psi/ft
1637 - 1694 mss	0.443 psi/ft

JURASSIC SECTION IS HYDROSTATICALLY PRESSURED