SIMON PETROLEUM TECHNOLOGY WELL: 31/2-3

Print: 2243 N	Units: (M) F	Top	Bottom	Scale	TD
Length: 19 FT	Initials: JPK	440	2595	1/500	2596

DIGITAL WIRELINE LOGS PACKAGE
1993
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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

lib.101.1

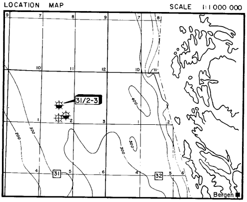
N

COMPLETION – Ø

a·s Norske Shell, E & P

COMPLETION LOG WELL: 31/2-3

LOCATION MAP SCALE 1:1 000 000



LICENCE: PL 054

FIELD:

COORDINATES: N 60°50'27.84", E 03°35'10.82"

SPUD DATE: 28.03.80

COMPLETION DATE: 20.07.80

RIG: BORGNY DOLPHIN

CONTRACTOR: DOLPHIN SERVICES A/S

D.F. ELEVATION: 25m

WATER DEPTH: 334m

T.D. (DRILLER): 2601m

T.D. (LOGGER): 2596.5m

T.D. FORMATION: TRIASSIC RED BEDS

STATUS: PLUGGED AND ABANDONED

CASING RECORD: 30" at 445m, 20" at 804m, 13 3/8" at 1353m, 9 5/8" at 1816m

MUD LOGGING CONTRACTOR: GEOSERVICES

SHELL GEOLOGISTS: M.LARSEN, O.NORVIK, N.SHAW, P.STACHER, S.WILLIS

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	

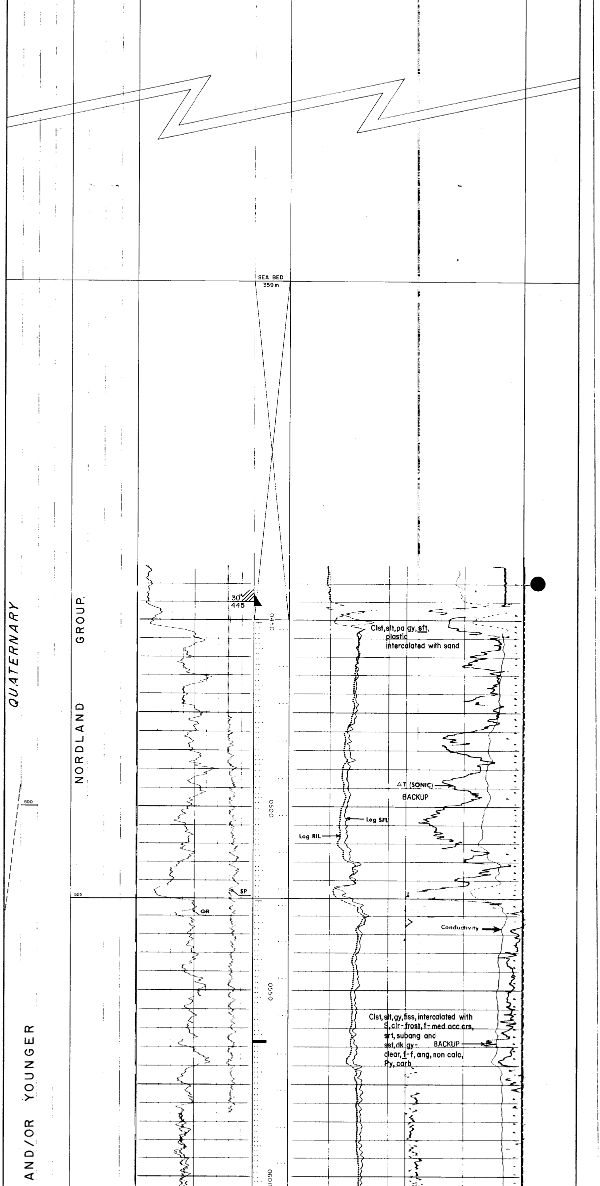
HYDROCARBON INDICATIONS

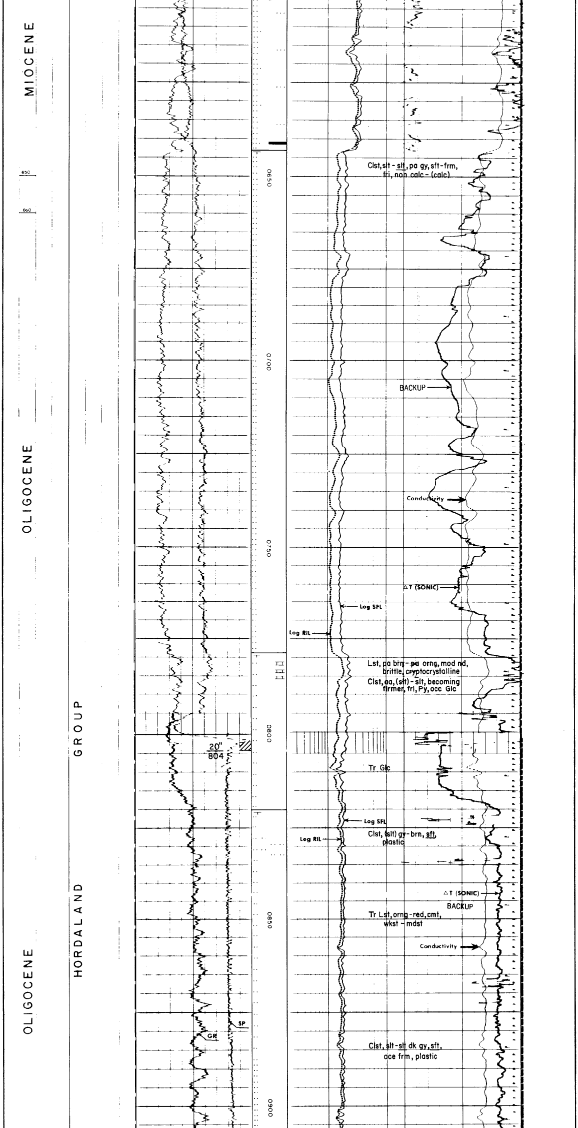
♀ WEAK OIL SHOWS	↑ WEAK GAS SHOWS
♀♀ STRONG OIL SHOWS	↑↑ STRONG GAS SHOWS
● PROVED PRODUCTIVE	☼ PROVED PRODUCTIVE

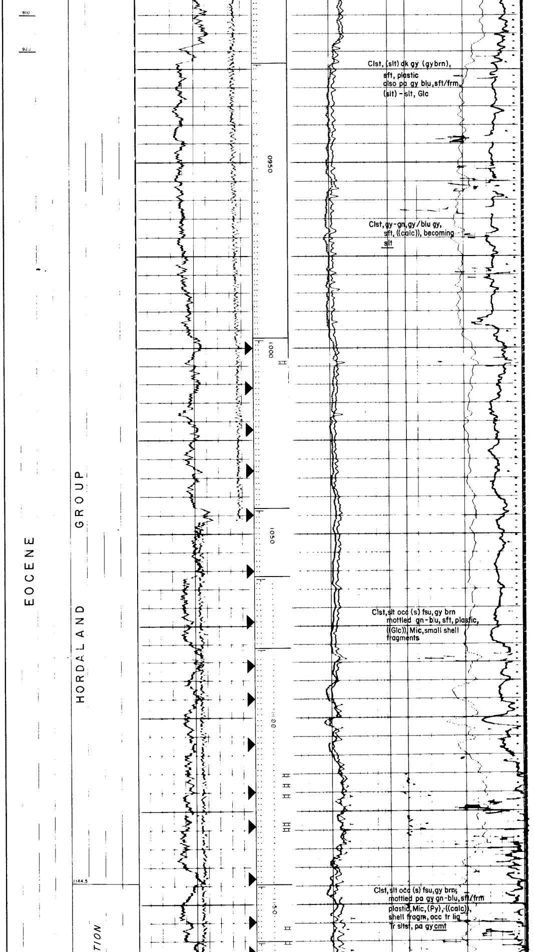
LOG and RUN No.	DATE	MEASURED	BIT SIZE	BHT°F	MUD TYPE	MUD GRAD. psi	MUD API Wt.	MUD RESISTIVITY SCHLUMBERGER SURFACE	MUD RESISTIVITY SCHLUMBERGER BHT	MUD FILTRATE RESISTIVITY
ISF-BHC-GR-SP1	03.04.80	445 - 814	17½	65	BENTONITE/ SEAWATER		1.4	0.254/48°F	0.19/65°F	0.552/48°F
FDC-CNL-CAL-GR1	"	445 - 818	"		"		"	"		"
LSS-GR1	"	445 - 816	"	"	"		"	"	"	"
ISF-BHC-GR-SP2	14.04.80	803 - 1368	"	90	GYPSUM/ LIGNOSULPH		1.30	0.352/48°F	0.21/90°F	0.239/48°F
FDC-CNL-CAL-GR2	"	805 - 1370	"		"		"	"		"
LSS-GR2	"	803 - 1364.3	"	"	"		"	"	"	"
FDC-CNL-CAL-GR3	04.05.80	1352.2-1823.7	12¼		"		1.28	0.362/58°F		0.611/58°F
DLL-MSFL-SP-GR1	"	1352.0-1824.0	"	121	"		"	"	0.18/121°F	0.271/58°F
HDT 1	05.05.80	1352-1819.5	"	132	"		"	"	0.18/132°F	"
ISF-BHC-GR-SP3	"	1352-1821.3	"	137	"		"	"	0.18/137°F	"
LSS-GR 3	"	1352-1819	"	141	"		"	"	0.18/141°F	"
CBL-VDL-GR1	"	630-1352			"					
RFT										
ISF-BHC-GR-SP4	19.05.80	1816.5-2593	8½	163	"		1.19	0.481/59°F	0.18/163°F	0.375/59°F
FDC-CNL-CAL-GR4	"	1816.7-2590	"		"		"	"		"
HDT 2	"	2517-2596	"	180	"		"	"	0.18/180°F	"
CBL-VDL-GR2	"	350-1816			"					
LSS-GR 4	19.05.80	1870-2594.2	"	176	"		"	"	0.18/176°F	"

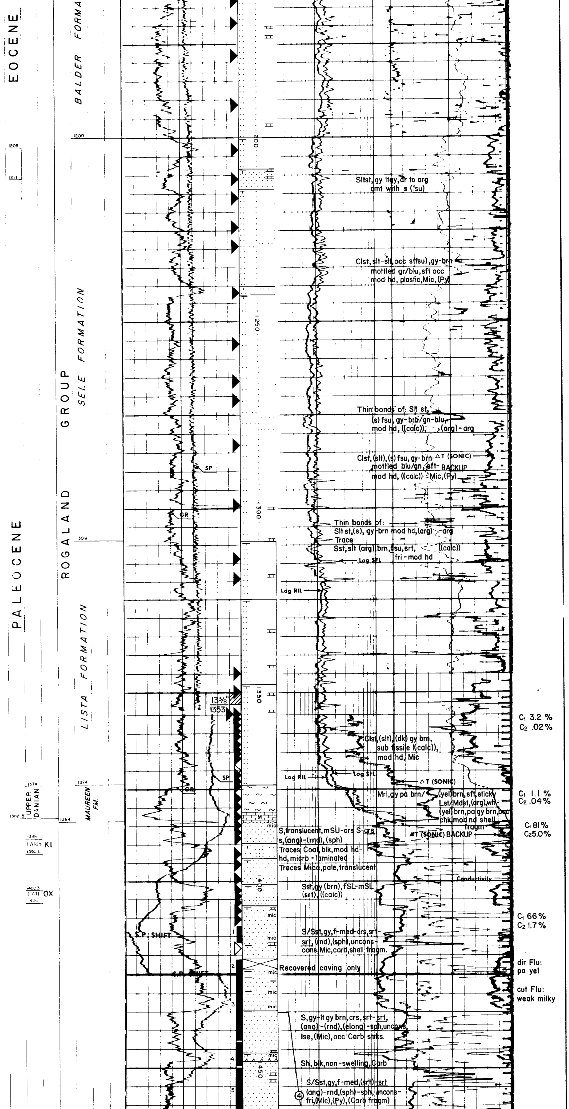
TIME STRATIGRAPHY				LITHOLOGICAL STRATIGRAPHY				GAMMA RAY (A.P.I. UNITS) 0 – 100 (BACK-UP) 100 – 200 SPONTANEOUS POTENTIAL 5 mV – +	INTERPRETED LITHOLOGY 1:500	RESISTIVITY (OHMS M²/M) DEEP INDUCTION 0.2 – 1.0 – RILD – 10 – 20 FOCUSED RESISTIVITY 0.2 – 1.0 – RSFL – 10 – 20 100 – 1000	INTERVAL TRANSIT TIME (MICROSECONDS per ft.) 140 – Δt – 40 240 – BACK-UP – 140 CONDUCTIVITY: DEEP INDUCTION 1000 – MMHO/M – 0	HYDRO-CARBON EVALUATION
SYSTEM	SERIES	STAGE	PALAEO.	GROUP	FORMATION	MEMBER	DESCRIPT. SUBDIV.					

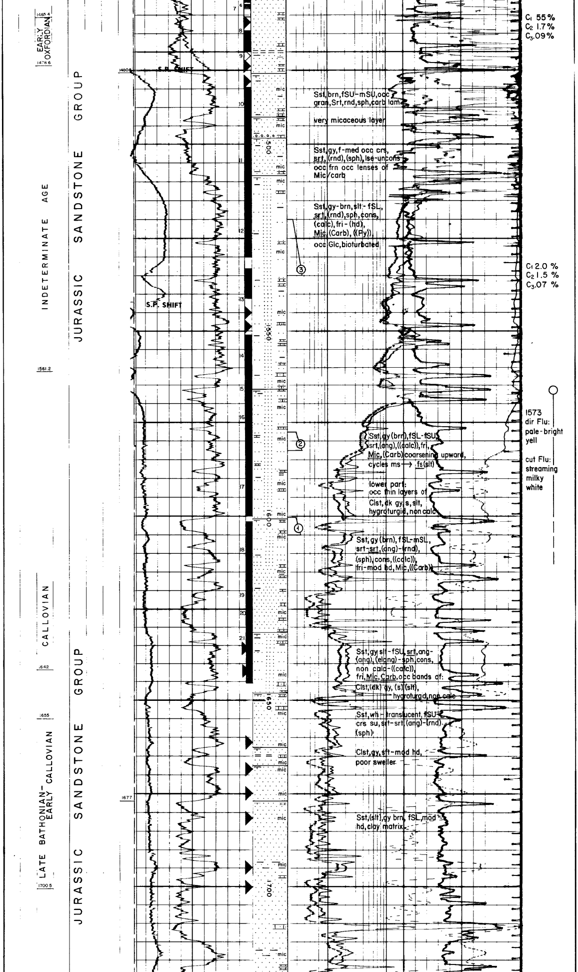
SEA LEVEL
25m

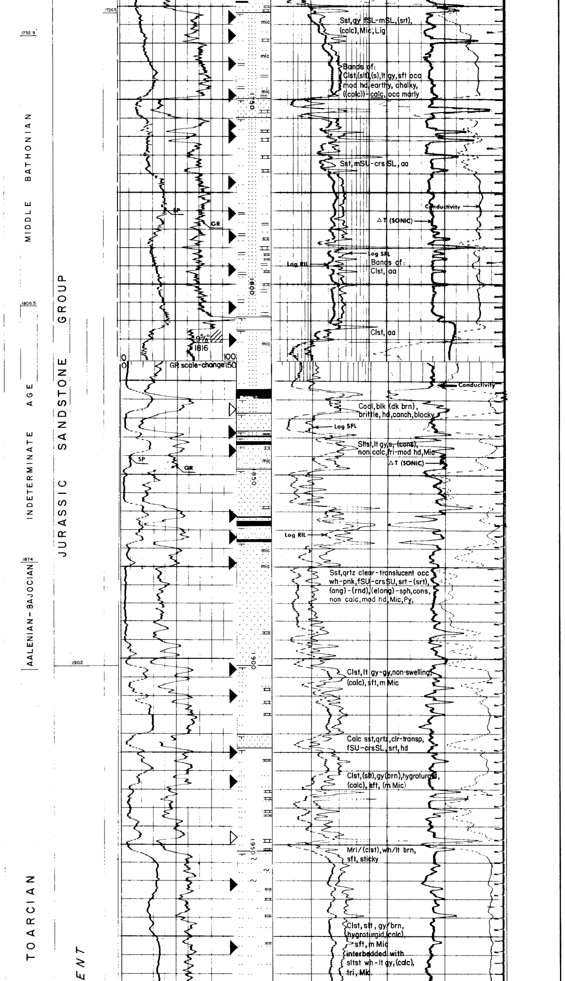


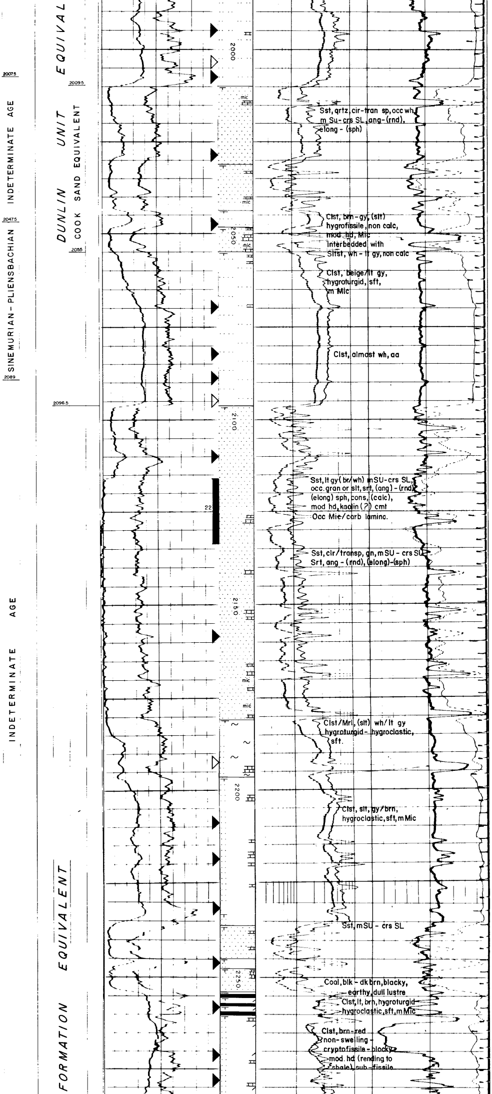


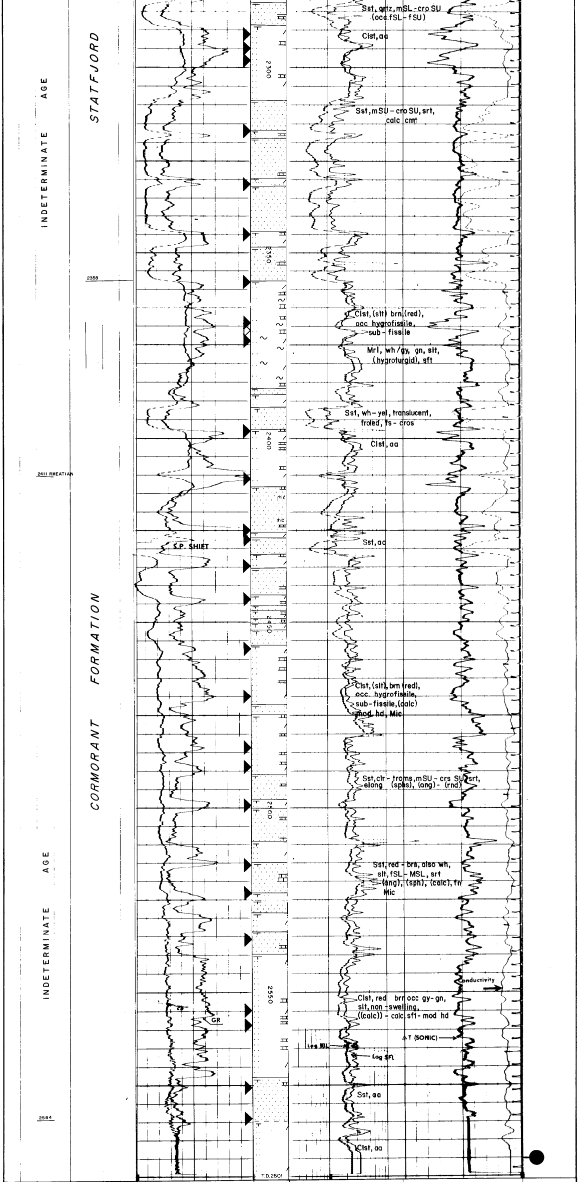












TIME STRATIGRAPHY	LITHOLOGICAL STRATIGRAPHY	GAMMA RAY (A.P.I. UNITS)	INTERPRETED LITHOLOGY	RESISTIVITY (OHMS M /M)	INTERVAL TRANSIT TIME (MICROSECONDS per ft)	HYDRO-CARBON EVALUATION
		0 100 (back-up)		DEEP INDUCTION ---- RILD ----	140 Δt 40	
SYSTEM SERIES STAGE PALAEO.	GROUP FORMATION MEMBER	SPONTANEOUS POTENTIAL 100 200 mV - +	1 500	FOCUSED RESITSTIVITY RSFL 0.2 1.0 10 20	240 (back-up) 140	

TEST RESULTS

No.	Type	Interval	Flow rate	Choke	THP	Remarks
1	DST	WATER ZONE 1600·5 - 1605·0m				87ltr Formation water - Resistivity 0·15OHMM at 10°C Salinity 70,000 PPM
2	PT	OIL ZONE 1577·5 - 1582·5m	32 bbl/day 34 - 400 bbl/day	8/64" 16/64"	65 PSI	24° API, 200-250 GOR Slugging
3	PT	GAS ZONE 1520 - 1535m	6·1 mmcuft/day 32·3mmcuft/day	8/64" 128/64"	1254 PSIG 631 PSIG	High note possible due to gas influx through cementation
4	PT	GAS ZONE 1435 - 1460 m	40mmcuft/day	1 1/2"	770 PSIG	

INTERVAL	PRESSURE GRADIENT	INTERPRETATION
1387 - 1570.2 m	0.0467 psi/ft	Gas
1570.2 - 1585.4 m	0.341 psi/ft	Possible Oil
1585.4 - 1750.5 m	0.437 psi/ft	Water

DRILLERS DEPTH

Core No 1.	1412-1421 m	rec.	90%
2.	1421-1425m	rec.	100%
3.	1425-1443m	rec.	94%
4.	1443-1450m	rec.	89%
5.	1450-1462m	rec.	93%
6.	1462-1462.85m	rec.	82%
7.	1462.85-1463.20m	rec.	0%
8.	1465.20-1473 m	rec.	49%
9.	1473-1484.4 m	rec.	18%
10.	1484.4-1496.4 m	rec.	100%
11.	1496.4-1514.5m	rec.	100%
12.	1514.5 - 1533 m	rec.	82%
13.	1533 - 1551 m	rec.	44%
14.	1551 - 1564.5m	rec.	100%