SIMON PETROLEUM TECHNOLOGY **WELL:** 7120/10-2

Print: 11371 S Units: [✓ M] F Top 245 Bottom 2500 Scale 1:500 TD 2500

Length: 19 FT Initials: TBS

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

U-643 .3 Completion S

ESSO NORGE a.s

COMPLETION LOG

LICENCE: PL 098 ROUND: 8

SCALE 1/500

7120/10-2

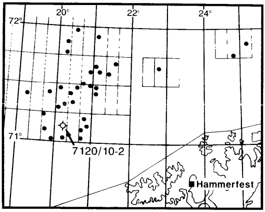
09
REGIS
OLJEDIF

LOCATION COORDINATES	
LATITUDE	71°05' 34.79" N
LONGITUDE	20°14' 28.31" F
RIG	BYFORD DOLPHIN
KB ELEVATION	25m AMSL
WATER DEPTH	189m BMSL
TOTAL DEPTH	2500m BKB 2475m SS
FORMATION AT TOTAL DEPTH	JURASSIC HEKKINGEN FM.

OPERATOR	ESSO NORGE a.s
ARRIVED ON LOCN	19 JULY 90
SPUD DATE	20 JULY 90
REACH T.D.	24 AUG. 90
RIG RELEASE	6 SEPT. 90
WELL STATUS	P & B DRY HOLE
MUDLOGGING BY	SCHLUMBERGER
PREPARED BY	D.M./A.C.
DATE	NOVEMBER 1990

CASING

30"	248
20"	Not se
13 3/8"	523
9 5/8"	1311

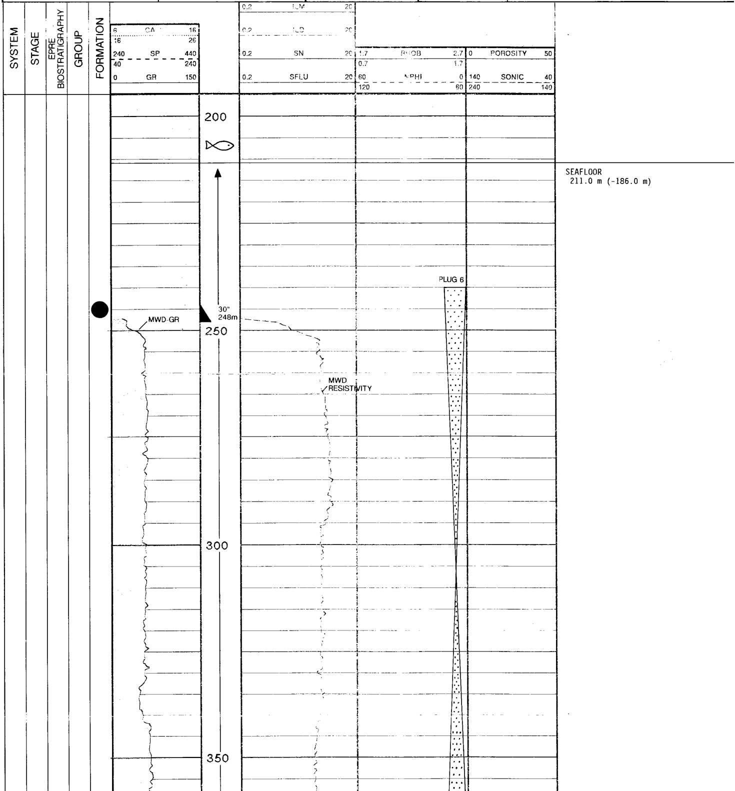


LITHOLOGY SYMBOLS

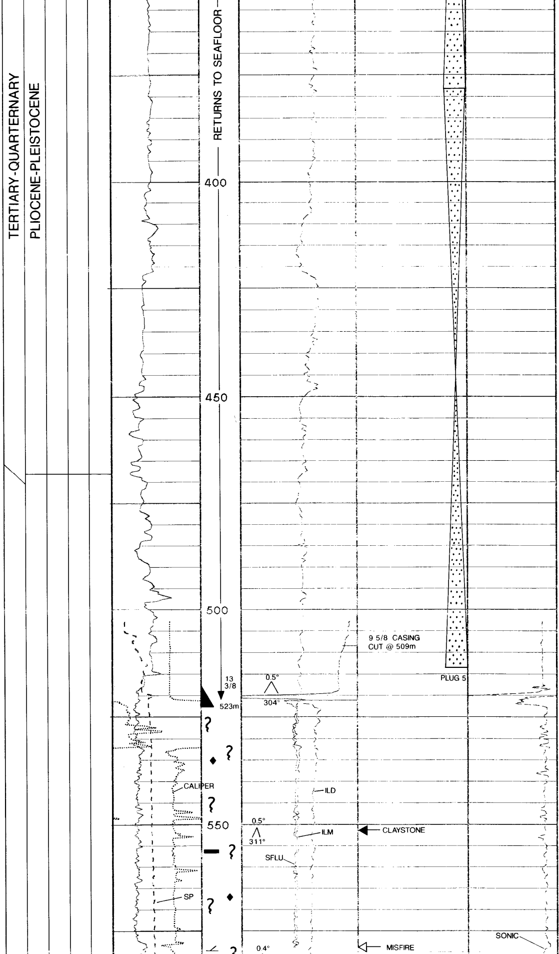
- CONGLOMERATE
- SAND, SANDSTONE
- SILT, SILTSTONE
- CLAY, CLAYSTONE
- SHALE
- LIGNITE/COAL, CARBONACEOUS, BITUMINOUS
- TUFF
- MACRO, MICRO FOSSILS
- CHERT, GLAUCONITE, PYRITE, MICA
- LIMESTONE CALCAREOUS
- DOLOMITE DOLOMITIC
- CHALK
- MARL
- SALT
- ANHYDRITE

LOG	RUN NO	DATE	INTERVAL (mKB)	BIT SIZE	MAX BHT (°F)	TIME SINCE CIRC / CIRCULATION	MUD TYPE	MUD RESISTIVITY (ΩM)/TEMP (°F) SURFACE	MUD RESISTIVITY (ΩM)/TEMP (°F) BHT	MUD FILTRA RESISTIVI (ΩM)-TEMP
MWD - GR RESISTIVITY	1		248-530	17 1/2						
MWD - GR RESISTIVITY	2		523-1320	12 1/4						
MWD - GR RESISTIVITY	3		1311-2495	8 1/2						
DIL-LSS-GR-SP-CAL	1	26/7-90	521-1314	12 1/4	96	12/1	GEL LIGNO CMC	0.295/67	0.212/96	0.226/7
SWC	1	26/7-90	551-1286	12 1/4	96	12/1	GEL LIGNO CMC	0.295/67	0.212/96	0.226/7
DIL-LSS-GR-SP-CAL	1	25/8-90	1312-1878	8 1/2	134	8.5/1	GEL LIGNO CMC	0.588/63	0.292/134	0.425/5
LDL-CNL-GR-CAL	1	25/8-90	1312-1878	8 1/2	134	8.5/1	GEL LIGNO CMC	0.588/63	0.292/134	0.425/5
DIL-LSS-GR-SP-CAL	2	29/8-90	1837-1935	8 1/2	140	9.5/1	GEL LIGNO CMC	0.624/63	0.297/140	0.436/5
LDL-CNL-GR-CAL	2	29/8-90	1837-1935	8 1/2	140	9.5/1	GEL LIGNO CMC	0.624/63	0.297/140	0.436/5
DIL-GR-CAL-SP-FGT-CNL	3	30/7-90	2106-2496	8 1/2	146	5/1	GEL LIGNO CMC	0.594/66	0.421/146	0.418/6
VELOCITY SURVEY	1	28-8-90	375-1930	8 1/2						
CBL-VDL-CCL	1	28-8-90	685-1321	CASING						

HYDROCARBON INDICATION						DST	WELL SUMMARY
SHOW OR STAIN		CASING SHOE, SIZE AND DEPTH		CORED INTERVAL		THROUGH CASING	OBJECTIVE: TO TEST VALANGINIAN SUBMARINE FAN SANDSTONES WITHIN A STRATIGRAPHIC TRAP
CUT	1° 180°	DEVIATION DIRECTION		(NO RECOVERY)	2	OPEN HOLE	
FLUORESCENCE	2°	DIPMETER		SIDEWALL CORE RECOVERED		RE-RUN	RESULTS: NO HYDROCARBONS WERE ENCOUNTERED VALANGINIAN SANDSTONES WERE PENETRATED FROM 2125m TO 2281m WITH POROSITIES OF 12% TO 15%
GAS SHOW	2050M (-2025M) 1984MS	DEPTH MKB DEPTH SUB SEALEVEL TWO WAY TIME FROM SEALEVEL (VELOCITY SURVEY)		NOT RECOVERED MISFIRE	2		
				PERFORATION INTERVAL	I	RFT/FIT	
				CEMENT PLUG INTERVAL			

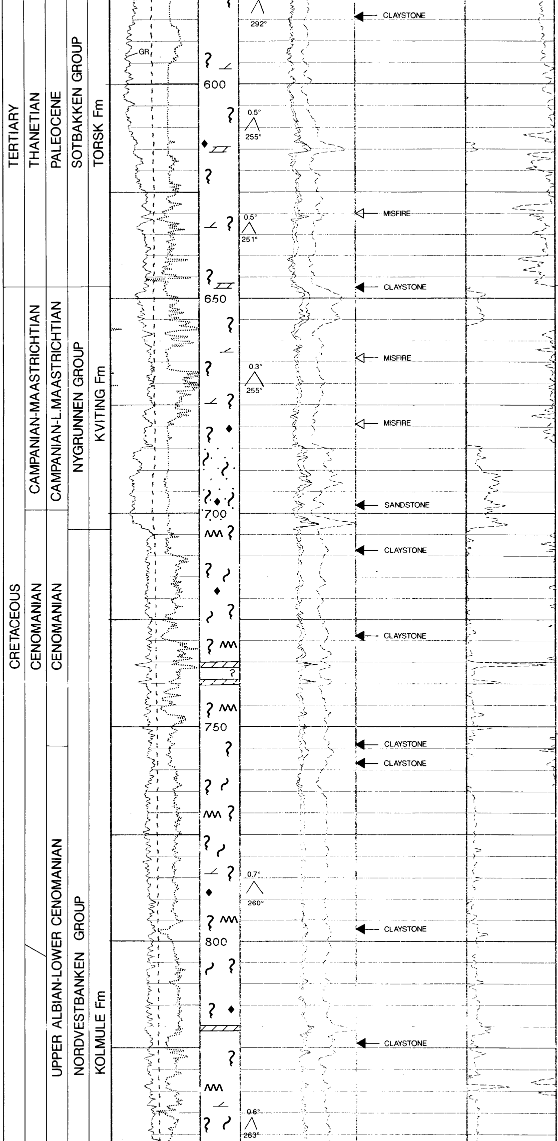


SEAFLOOR
211.0 m (-186.0 m)



BASE PLIOCENE/PLEISTOCENE
467.5 m (-442.5 m)

CLAYSTONE/Clay: Grey, grey-green, fi
to soft, amorphous non-calcareous.



CLAYSTONE: Dark grey-green mottled, soft to firm

tr DOLOMITE, buff, microcrystalline hard angular fragments

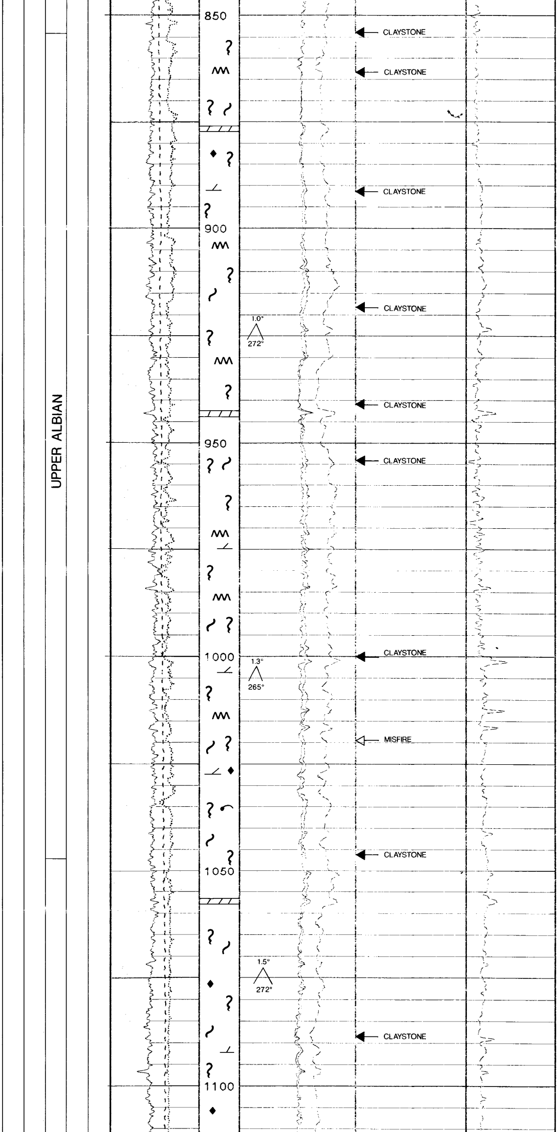
TOP CREATACEOUS
i.e. 647.0 m (- 622.0)

SANDSTONE: Clear quartz, abundant glauconite, medium grained, moderate sorted, no shows.

CLAYSTONE: Dark grey to green grey occasionally brownish, soft to firm occasionally pyrite, tr DOLOMITE

MID CENOMANIAN SEISMIC MARKER
752.0 m (-727.0)

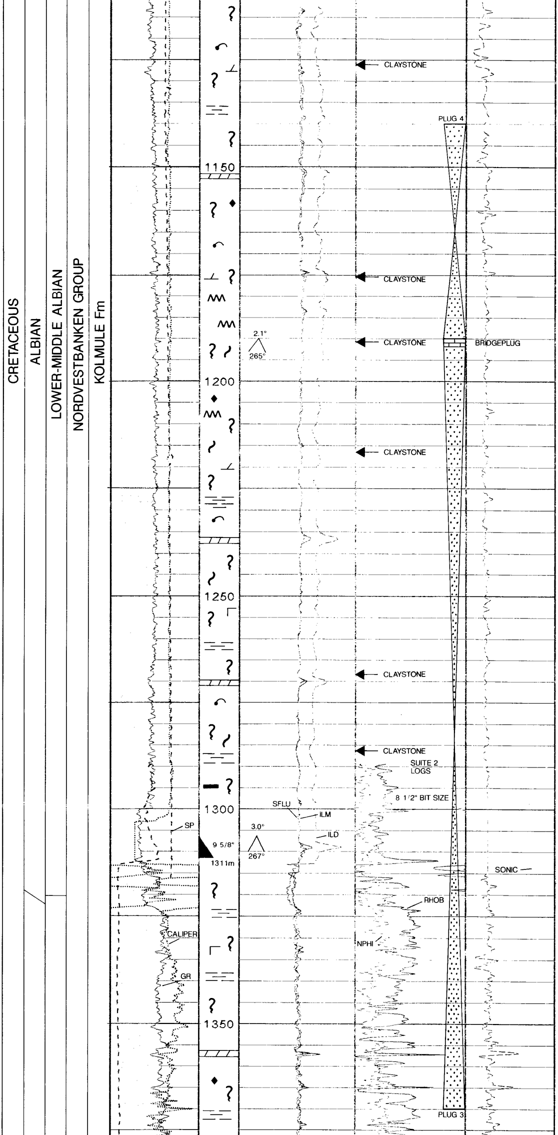
CLAYSTONE: 80% medium grey to dark grey, blocky to soft cuttings, trace pyrite, trace glauconite, trace mica
SILTSTONE: 20% medium to dark grey, very argillacous
tr SANDSTONE - No shows



CLAYSTONE: 70% a/a
SILTSTONE: 30% a/a
tr DOLOMITE

CLAYSTONE: 50%
SILTSTONE: 50%

CLAYSTONE 100% medium grey to mediu
dark grey, firm to moderately hard,
calcareous, trace pyrite
tr MICA
tr SHELL FLAGMENTS

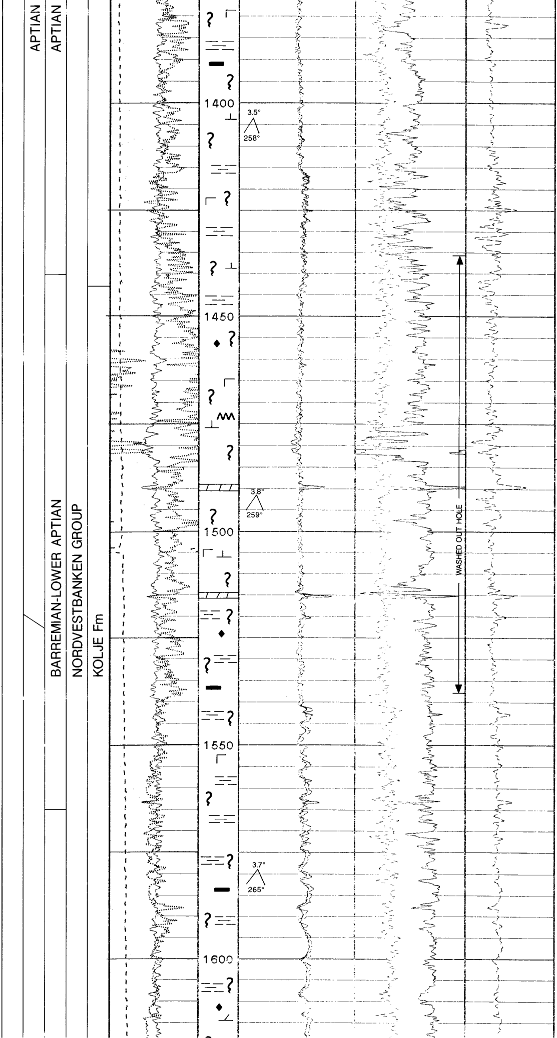


CLAYSTONE: 95%
SILTSTONE: 5%

CLAYSTONE: 50%
SILTSTONE: 50%
tr PYRITE
tr GLAUCONITE
tr MICA

CLAYSTONE: 80% becoming subfissile
SILTSTONE: 20%

CLAYSTONE: 100%. Dark to medium grey
grades to siltstone, subfissile to
blocky, soft to firm
tr PYRITE
tr GLAUCONITE
tr CARBONACEOUS



CLAYSTONE: 80%
SILTSTONE: 20%

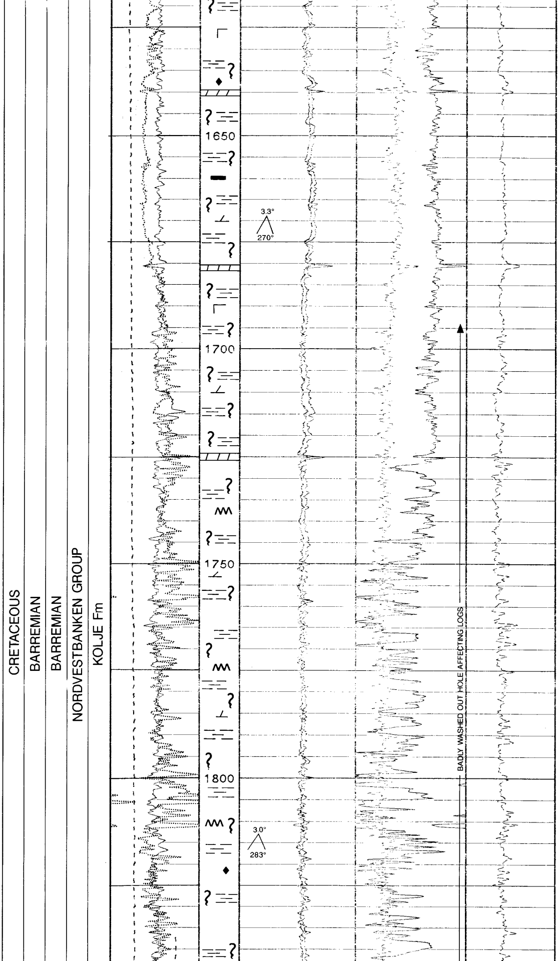
CLAYSTONE: 70%
SILTSTONE: 30%
tr LIMESTONE
tr DOLOMITE

MID-APTIAN SEISMIC MARKER
1483.0 m (-1458.0 m)

CLAYSTONE: 100% Dark to medium grey
firm, blocky to subfissile
noncalcareous
tr PYRITE
tr DOLOMITE

CLAYSTONE/SHALE, 100% medium to dar
grey, fissile to subfissile.

CLAYSTONE/SHALE 90%
DOLOMITE 10%



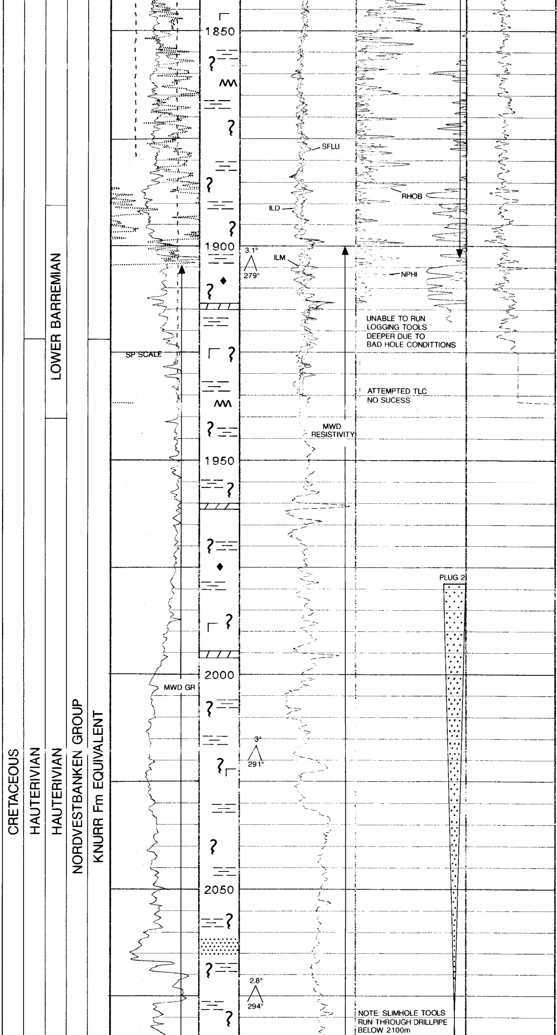
SHALE/CLAYSTONE 100%
tr DOLOMITE

SHALE/CLAYSTONE 90%
DOLOMITE 10%

SHALE/CLAYSTONE 85% medium to dark grey, fissile to subfissile, occasionally blocky, grades to siltstone, non-calcareous, firm to har

SILTSTONE 10% medium-light grey, gra to shale.

DOLOMITE 5% buff, microcrystalline hard angular frags



SHALE/CLAYSTONE 100%
tr DOLOMITE

SHALE/CLAYSTONE 100%
tr DOLOMITE

TOP HAUTERIVIAN
1922.0m (-1897.0m)

SHALE/CLAYSTONE 80%
SILTSTONE 20%
tr DOLOMITE

SILTSTONE 80% medium grey argillaceous, grades to claystone, no calcareous, rarely carbonaceous, rare pyrite.

CLAYSTONE/SHALE 20% dark to medium grey

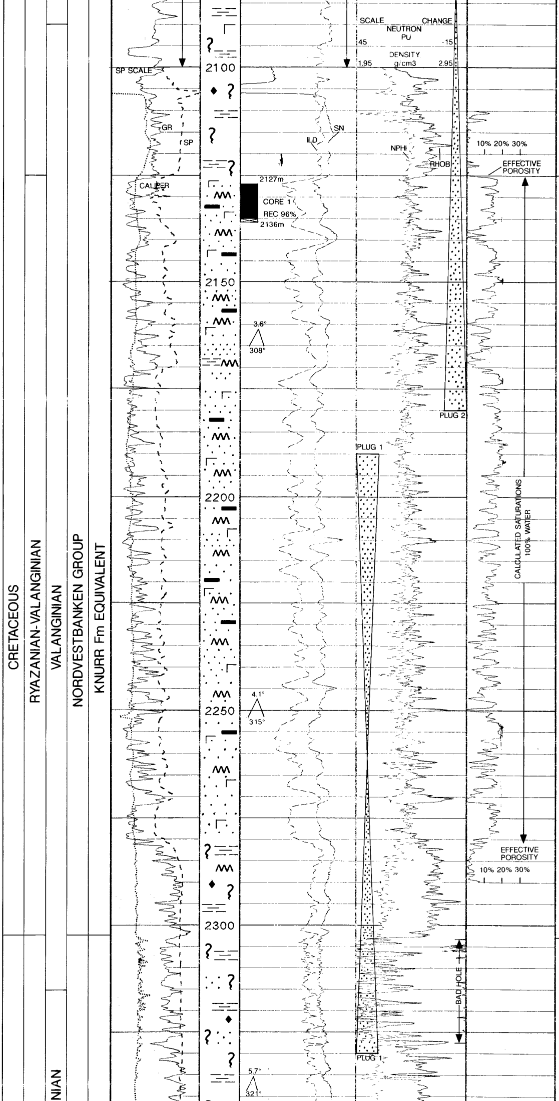
tr SANDSTONE fine grained, well sorte dolomitic cement, no shows

tr DOLOMITE

SILTSTONE 50%
SHALE/CLAYSTONE 50%

SANDSTONE - white to offwhite, fine to medium quartz, moderate to well sorted calcareous/siliceous cement, no shows

CLAYSTONE/SHALE 100%



CLAYSTONE/SHALE 100%

TOP VALANGINIAN
2125.0 M (-2100.0 M)

SANDSTONE 80% fine to very fine grai
quartz, no apparent matrix or cement,
common mica

SILSTONE 20% medium grey.

tr CARBONACEOUS material
no shows

SANDSTONE 90 % white, fine grained
quartz, white clay matrix, poor visua
porosity. No shows.

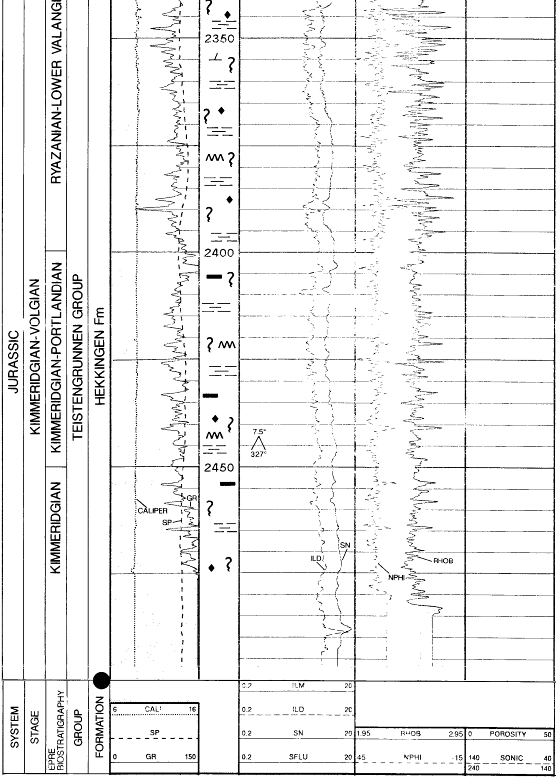
RESERVOIR SUMMARY

INTERVAL	: 2125 - 2281 m
GROSS SANDSTONE	: 101 m
NET SANDSTONE	: 95 m
NET AVERAGE POROSITY	: 15.8 %
NET TO GROSS	: 61 %
NET PAY	: 0 m

SANDSTONE 80% offwhite to clear loo
or as aggregates, moderate visual
porosity. No shows.

SILTSTONE/CLAYSTONE grey brown

TOP JURASSIC
2303.0 m (-2278.0)



SILTSTONE 90% Medium blue grey and medium brown grey argillaceous, firm hard, micaceous
DOLOMITE 5%
SANDSTONE 5% cavings

CLAYSTONE 60%

SILTSTONE 40%
tr DOLOMITE
tr SANDSTONE

SILTSTONE/CLAYSTONE 100% Light to medium brown, common mica, trace to ra carbonaceous material

SILTSTONE/CLAYSTONE 100%