STATOIL DATA PROCESSING CENTER

PLOT MADE BY: R NICOLAYSEN **DATE:** 10.08.47 23 JUNI 1984

DEPARTMENT : RES. PETROFYSIKK

ADDRESS/BOX : FABRIKKVEIEN

OTHER INFO :

GRAPHICAL LOG-PRESENTATION

STATOIL

WELL : 31-2-14 DEPTH INTERVALL :1520.00-1661.50 (METER)

ENGINEER :RN SCALE 1:200

DATE: 10.08.52 23 JUNI 1984

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P E T R O P H Y S I C A L E V A L U A T I O N

	TVD (RKB)	TVD (SS)
INTERVAL	1520 - 1661.5 M (RKB)	1495.3 - 1636.8 M (SS)

STRATIGRAPHY
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SOGN FM	1532.50 - 1592.00 M (RKB)	1507.80 - 1567.30 M (SS)
LAG 1A	1532.50 - 1553.50 M (RKB)	1507.80 - 1526.80 M (SS)
LAG 1B+C	1553.50 - 1592.00 M (RKB)	1526.80 - 1567.30 M (SS)
HEATHER C FM	1592.00 - 1684.00 M (RKB)	1567.30 - 1659.30 M (SS)
FENS FM	1684.00 - 1720.00 M (RKB) TD	1659.30 - 1695.30 M (SS) TD

SUMMARY OF RESULTS :
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FORMATION	WELL	INTERVALL	NET PAY	FLUID CONTACTS	TOTAL INT.	TOTAL NET SAND	AVR.POR. NET SAND	AVR.SW NET SAND	AVR.VSH TOTAL INT
SOGN 1A	31/2-14	1532.50-1553.25	17.75		20.75	18.00	20.8	15.3	0
SOGN 1B+C	*	1553.50-1591.75	38.00	1585.00	38.25	38.00	30.7	11.8	0
HEATHER C	*	1592.00-1661.50	2.75	1592.00	69.50	69.25	24.7	86.2	0
		M (RKB)	M	M (RKB)	M	M	%	%	%

* STATSTIKK TATT OVER INTERVALER DER LDT-CNL LOGG ER BLITT KJ*RT *

APPLIED CUTOFFS:

PHIF (.12
SW) .85

PETROPHYSICAL EVALUATION :
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METHOD : THE NORTH SEA EQUATION WAS USED FOR THE SW-CALCULATIONS.

INPUTPARAMETERS:

MUD : VANNBASERT TYPE

FORMATION : SOGN : RHOMA(G/CC)=2.65 RW (OHMM) AT FT =0.07 M = 2.13
HEATHER C: RHOMA(G/CC)=2.65 N = 2.0
FENS : RHOMA(G/CC)=2.67 A = 1.0

FT (DEG.C.) = 57.8 VSH.EXP= 1.6

GENERAL INFORMATION
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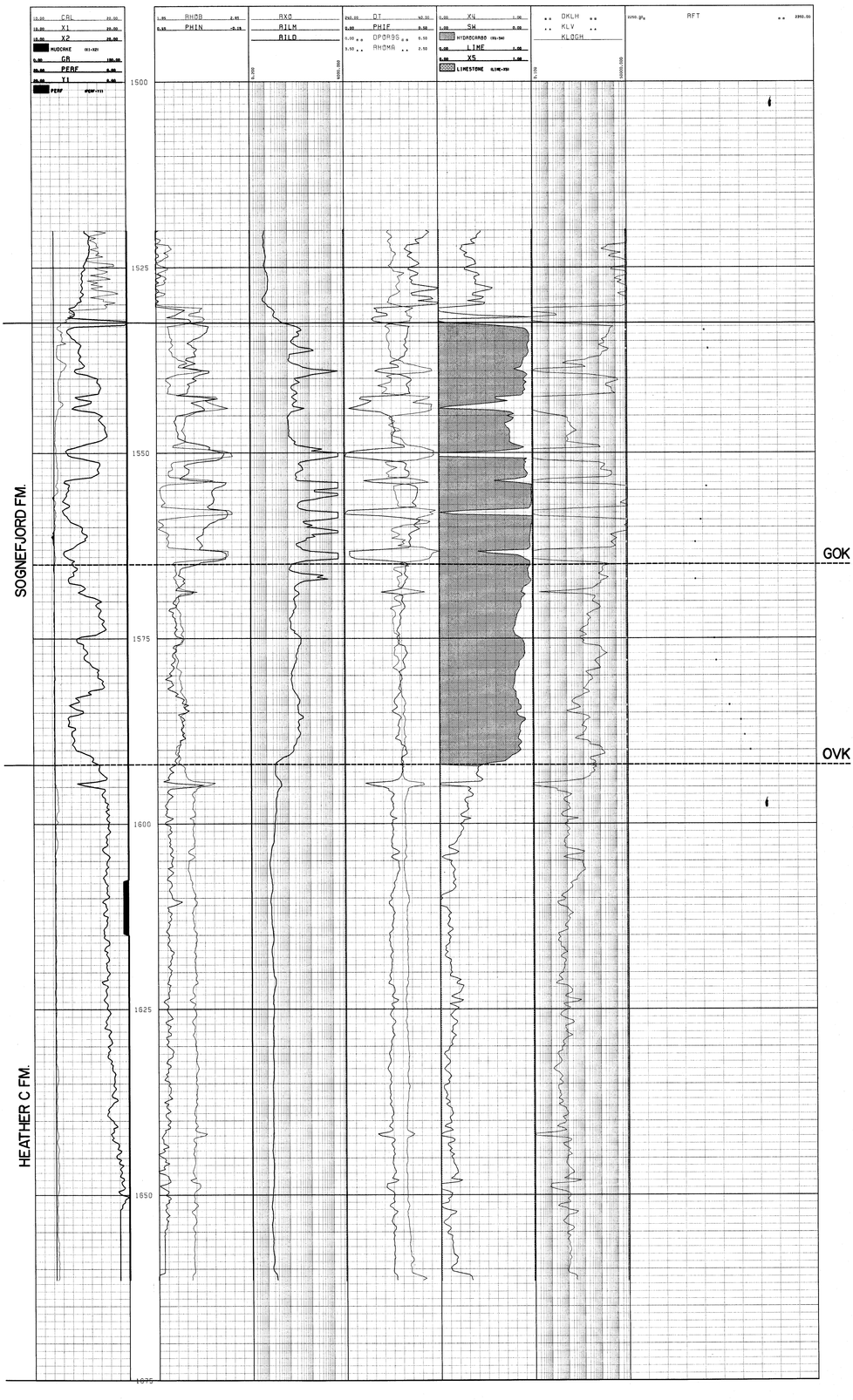
CURVE IDENTIFICATION LOG (SCHLUMBERGER)

CAL = CALIPER (INCH).....LDT/CNL
BIT = BIT SIZE (INCH)
MUD = MUDCAKE (CALIPER - BITSIZE).....LDT
GR = GAMMA RAY (API UNITS).....LDT
RHOB = BULK DENSITY (G/CM**3).....LDT
PHIN = NEUTRON POROSITY (L.S. UNITS).....CNL
DT = BHC - ACOUSTIC TRAVEL TIME (MSEC/FT).BHC
RMSFL = MICROSPHERICAL RESISTIVITY (OHMM)....DLL(BMC)
RLLS = DUAL LATEROLOG - SHALLOW (OHMM).....DLL
RLLD = DUAL LATEROLOG - DEEP (OHMM).....DLL
RILD = INDUCTION RES. - DEEP (OHMM).....ILD

RXO = RESISTIVITY, INVADED ZONE (OHMM).....COMPUTED
RT = RESISTIVITY, NONINVADED ZONE (OHMM).....COMPUTED
VSH = SHALE VOLUME (FRACTION).....COMPUTED
PHIF = FINAL POROSITY (FRACTION).....COMPUTED
DPORHE = DEPTH SHIFTED CORE HELIUM POROSITY (FRACTION)...FROM CORE
SW = WATER SATURATION (FRACTION).....COMPUTED
DSWPC = DEPTH SHIFTED (RMEO. SW FROM CALIP. PRESS. DATA.FROM CORE
DKLH = DEPTH SHIFTED HORIZ. PERMEABILITY (M-DARCY).....FROM CORE
KLOGH = CALCULATED PERMEABILITY (K-\ RELATION).....COMPUTED
DRHOMA = DEPTH SHIFTED GRAIN DENSITY (G/CM**3).....FROM CORE

NOTE: DEPTH CORECTED HELIUMPOROSITY (DPORHE); HELIUMPOROSITY FROM CORE ANALYSIS (PORHE) IS DEPTH-CORRECTED TO MATCH FINAL POROSITY FROM LOG EVALUATION (PHIF).
THE SAME DEPTH CORRECTION IS APPLIED TO HORIZONTAL PERMEABILITY (DKLH); GRAIN DENSITY (DRHOMA) AND DSWPC.
CORE POROSITY HAS NOT BEEN CORRECTED FOR THE OVERBURDEN EFFECT.

ENGINEER: RUNE NICOLAYSEN