Encl. 1

SIMON PETROLEUM TECHNOLOGY

WELL: 7/12-10

Print: 14883R   Units: [✓ M] F   Top: 900   Bottom: 3670   Scale: 1/500   TD: 3673

Length: 22 FT   Initials: JAT

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

U-606 R

BP NORWAY LIMITED U.A.

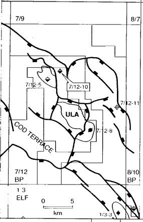
7/12-10

WISARD COMPOSITE LOG

7/12-10

SCALE 1:500 MEASURED DEPTH

BLOCK MAP


7/9
8/7
7/12-5
7/12-10
ULA
7/12-11
7/12-8
COD TERRACE
7/12
BP
8/10
BP
1 3
ELF
0
5
km
1/3-3

WELL LOCATION

CO-ORDINATES AT SURFACE

Latitude:	57 10 57.250N
Longitude:	02 48 18.550E
Grid Reference.	488220.69mE 6337868.19mN

VERTICAL WELL

Projection mnemonic:	NUTM31
Geodetic Datum.	ED50

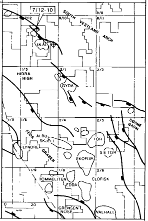
GENERAL WELL DATA

WELL CLASSIFICATION: EXPLORATION WELL
COMPLETION WELL STATUS: ABANDONED DRY WITH OIL SHOW

OPERATOR: BP NORWAY LIMITED U.A.
RIG USED: ROSS ISLE
RIG TYPE. SEMI-SUBMERSIBLE
DEPTH DATUM: KB   DATUM HEIGHT: 22.5 mAMSL
WATER DEPTH: 72.0 m
DATE SPUDDED: 08-JUL-1991   REACHED TD: 22-AUG-1991
RIG RELEASED: 30-AUG-1991
TOTAL DEPTH: 3673.0 mBKB (WIRELINE)
3650.5 mTVDSS
3667.0 mBKB (DRILLER)
3644.5 mTVDSS
LICENCE: PL019A
INTERESTS: BP NORWAY LIMITED U.A
SVENSKA PETROLEUM AB
STATOIL (DEN NORSKE STATS OLJESELSKAP A/S)
CONOCO NORWAY INC. U.A.
A/S PELICAN AND COMPANY K/S

DRILLING CONTRACTOR: ROSS OFFSHORE

REGIONAL MAP


7/12-10
SOUTH VESTLAND ARCH
8/8
7/12
8/10
8/11
ULA
1/3
HIDRA
HIGH
2/1
2/2
GYDA
1/5
1/6
2/4
2/5
SOGNE BASIN
FEDA GRABEN
ALBUSKJELL
FLYNDRE
TOR
SE TOR
EKOFISK
1/9
1/8
2/8
TOMMELITEN
EDDA
ELDFISK
0
20
km
GRENSEN NOSE
VALHALL

LITHOSTRATIGRAPHY	THICKNESS (m) A.V.T.	TOPS (m)	TOPS (m) TVDSS	THICKNESS (m) A.V.T.	CHRONOSTRATIGRAPHY
NORDLAND GROUP		94.50	72.00		
		500.00	477.50	2500.00	TERTIARY
HORDALAND GROUP	728.00	1930.00	1907.50		
		2000.00	1977.50	1000.00	PALEOGENE
ROGALAND GROUP	277.00	2658.00	2635.50		
BALDER FORMATION	42.00	2658.00	2635.50		
SELE FORMATION	63.00	2700.00	2677.50		
LISTA FORMATION	98.00	2763.00	2740.50		
VIDAR FORMATION	56.00	2861.00	2838.50		
VALE FORMATION	18.00	2917.00	2894.50		
		2920.00	2897.50	60.00	EARLY PALEOCENE
SHETLAND GROUP	351.00	2935.00	2912.50		
EKOFISK FORMATION	65.00	2935.00	2912.50		
TOR FORMATION	180.00	3000.00	2977.50	540.00	CRETACEOUS
		3000.00	2977.50	286.00	LATE CRETACEOUS
		3000.00	2977.50	165.00	LATE MAASTRICHTIAN
HOD FORMATION	102.00	3180.00	3157.50	20.00	LATE CAMPANIAN - EARLY MAASTRICHTIAN
		3205.00	3182.50	55.00	EARLY CAMPANIAN
		3265.00	3242.50	20.00	LATE TURONIAN
BLODOKS FORMATION	1.50	3282.00	3259.50		
HIDRA FORMATION	2.50	3283.50	3261.00		
CROMER KNOLL GROUP	252.00	3286.00	3263.50	254.00	EARLY CRETACEOUS
RODBY FORMATION	46.00	3286.00	3263.50		
		3290.00	3267.50	40.00	LATE ALBIAN
SOLA FORMATION	30.00	3332.00	3309.50		
TUXEN FORMATION	23.00	3362.00	3339.50		
		3377.00	3354.50	2.00	MIDDLE BARREMIAN
		3380.00	3357.50	2.00	EARLY BARREMIAN
ASGARD FORMATION	153.00	3385.00	3362.50		
		3390.00	3367.50	73.00	EARLY VALANGINIAN
		3484.00	3461.50	51.00	LATE RYAZANIAN
		3537.00	3514.50	1.00	EARLY RYAZANIAN
TYNE GROUP	89.00	3538.00	3515.50		
MANDAL FORMATION	25.50	3538.00	3515.50		
		3540.00	3517.50	101.50	JURASSIC
		3540.00	3517.50	101.50	LATE JURASSIC
		3541.00	3518.50	3.00	LATE PORTLANDIAN
		3547.00	3524.50	60.00	EARLY PORTLANDIAN
FARSUND FORMATION	63.50	3563.50	3541.00		
		3610.00	3587.50	27.00	LATE KIMMERIDGIAN
ULA FORMATION	14.50	3627.00	3604.50		
		3638.00	3615.50	3.50	EARLY KIMMERIDGIAN
SKAGERRAK FORMATION	31.50	3641.50	3619.00	31.50	TRIASSIC

CONVENTIONAL CORE DATA

CORE NUMBER	TOP DEPTH (m)	BOTTOM DEPTH (m)		STRATIGRAPHIC INTERVAL	LITHOLOGICAL DESCRIPTION
1	3622.70	3634.50		FARSUND FORMATION - ULA FORMATION	
2	3634.70	3661.70		ULA FORMATION - SKAGERRAK FORMATION	

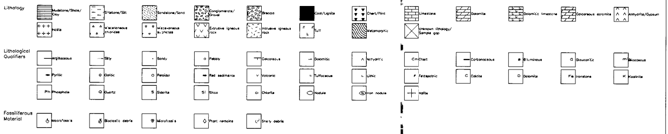
WIRELINE FORMATION TESTS

TYPE	TEST No.	TOP DEPTH (m)	FORMATION PRESSURE (psia)	PERM	RES	SAMPLE	COMMENTS ON A TEST
RFT	2	3013.00			Ti		
RFT	1	3013.50					
RFT	15	3016.70			Ti		
RFT	3	3017.10			Ti		
RFT	5	3019.00					
RFT	6	3019.10			Ti		
RFT	4	3019.50			Ti		
RFT	16	3019.70			Ti		
RFT	8	3021.00					
RFT	7	3021.20					
RFT	14	3021.50					
RFT	10	3030.30			Ti		
RFT	9	3030.80					
RFT	11	3046.50			Ti		
RFT	12	3061.30			Ti		
RFT	13	3065.10			Ti		

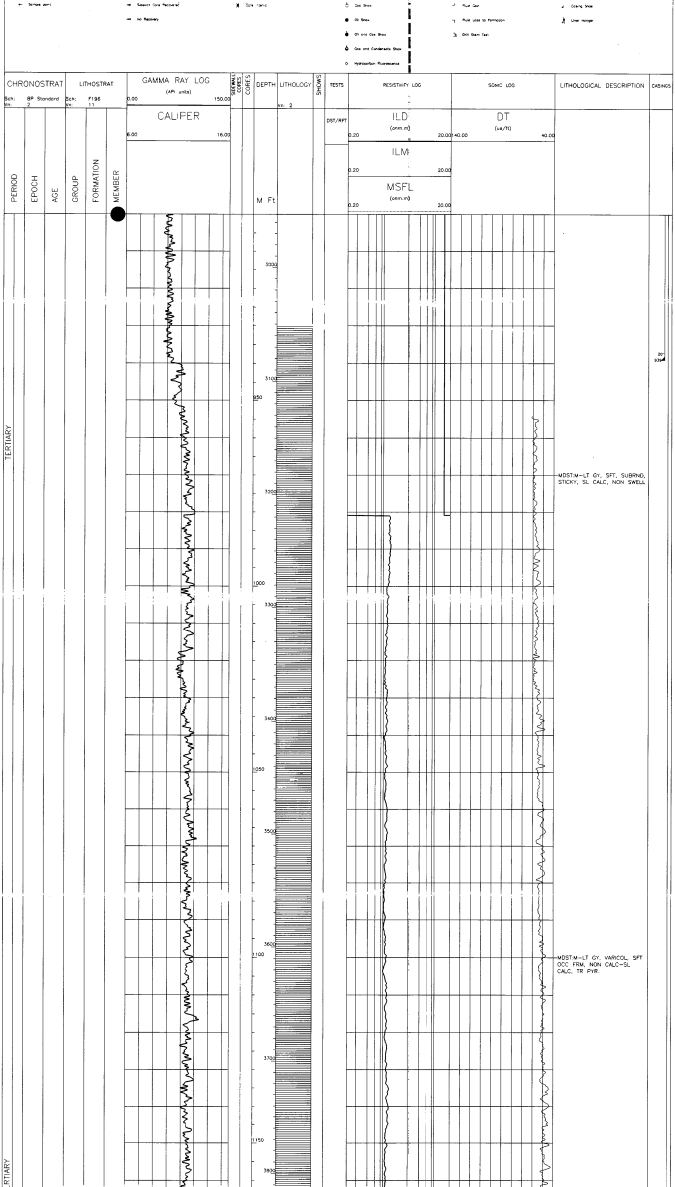
DRILL STEM TESTS

TEST TYPE	TEST No.	TOP DEPTH (m)	BOTTOM DEPTH (m)	GAUGE DEPTH (m)	STRATIGRAPHIC INTERVAL	CHOKE SIZE (inches)	FORMATION PRESSURE (psia)	B.H.F.P (psia)	W.H.F.P (psig)	FLOW DURATION (hours)	FLOWRATE		REVERSED VOL (bbl)	HYDROCARBON GRAVITY		GOR	CGR
											FLUIDS B.P.D	GAS MMSCFGPD		OIL	GAS		

LITHOLOGY SYMBOLS

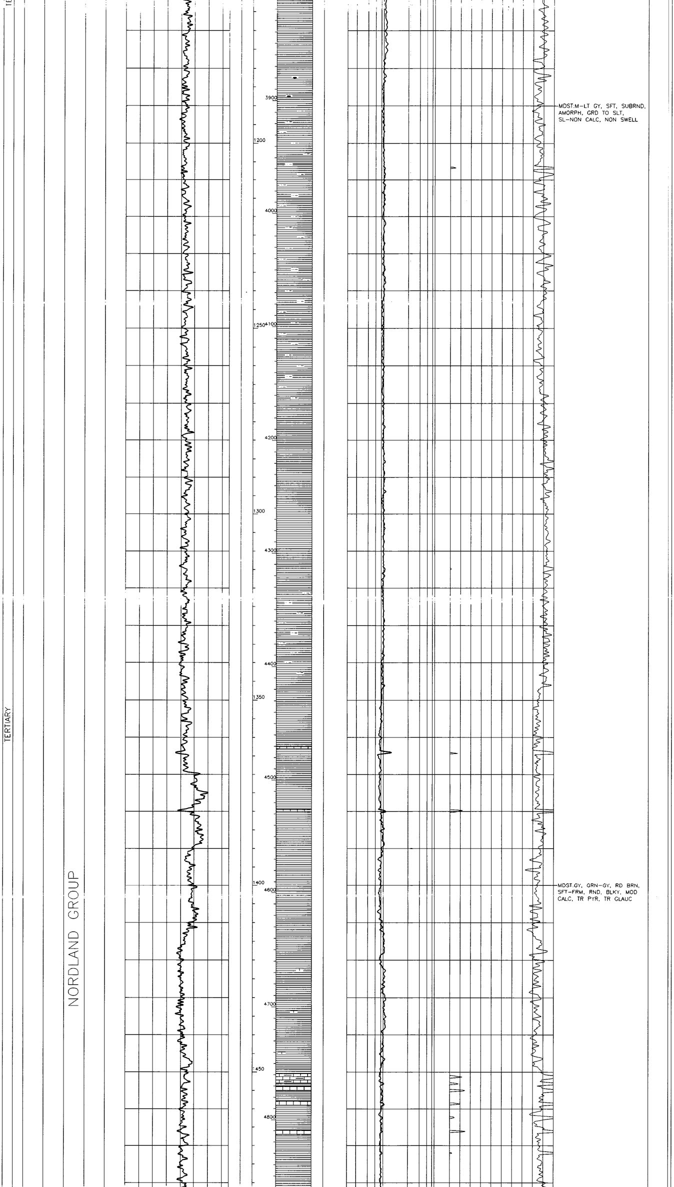

Lithology
Mudstone/Shale/Clay
Siltstone/Silt
Sandstone/Sand
Conglomerate/Gravel
Breccia
Coal/Lignite
Chert/Flint
Limestone
Dolomite
Dolomitic limestone
Calcareous dolomite
Anhydrite/Gypsum
Halite
Miscellaneous chlorides
Miscellaneous sulphates
Extrusive igneous rock
Intrusive igneous rock
Tuff
Metamorphic
Unknown lithology/Sample gap
Lithological Qualifiers
Argillaceous
Silty
Sandy
Pebbly
Calcareous
Dolomitic
Anhydritic
Cm Chert
Carbonaceous
B Bituminous
G Glauconitic
mi Micaceous
Pyritic
Oolitic
Peloidal
Red sediments
Volcanic
Tuffaceous
L Lithic
F Feldspathic
C Calcite
D Dolomite
Fe Ironstone
K Kaolinite
Ph Phosphate
Q Quartz
S Siderite
Si Silica
Cl Chlorite
Nodule
Fe Iron nodule
Halite
Fossiliferous Material
Macrofossils
Bioclastic debris
Microfossils
Plant remains
Shelly debris

WELL SYMBOLS



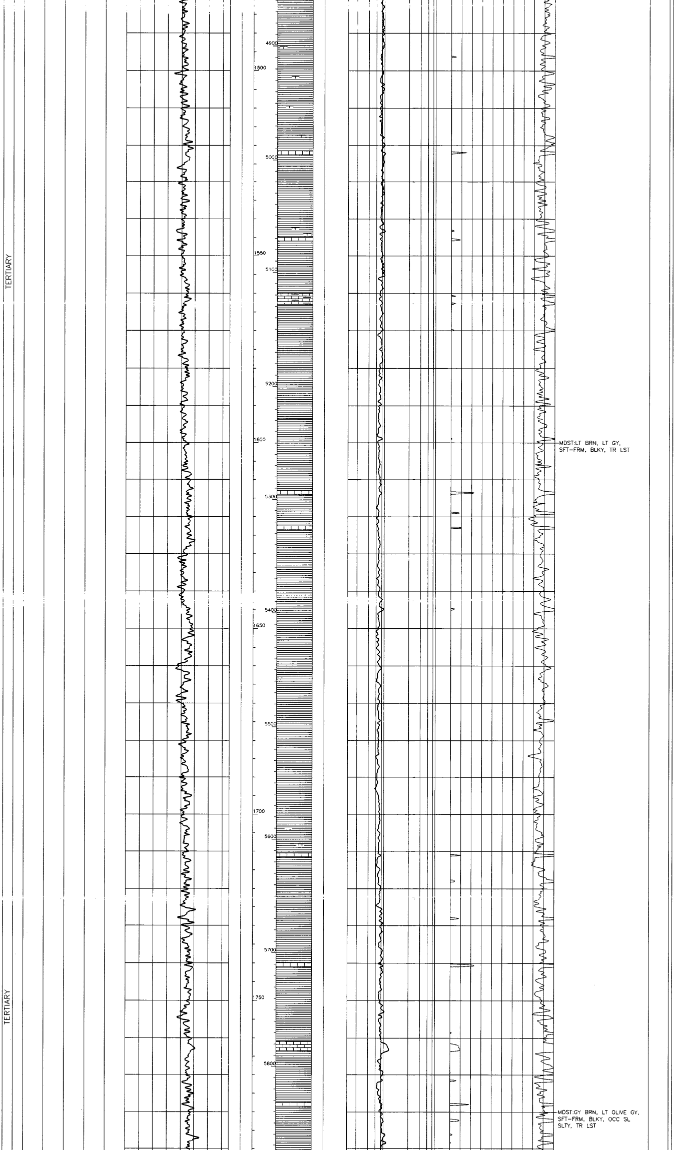
MDST:M-LT GY, SFT, SUBRND, STICKY, SL CALC, NON SWELL

MDST:M-LT GY, VARICOL, SFT OCC FRM, NON CALC-SL CALC, TR PYR.



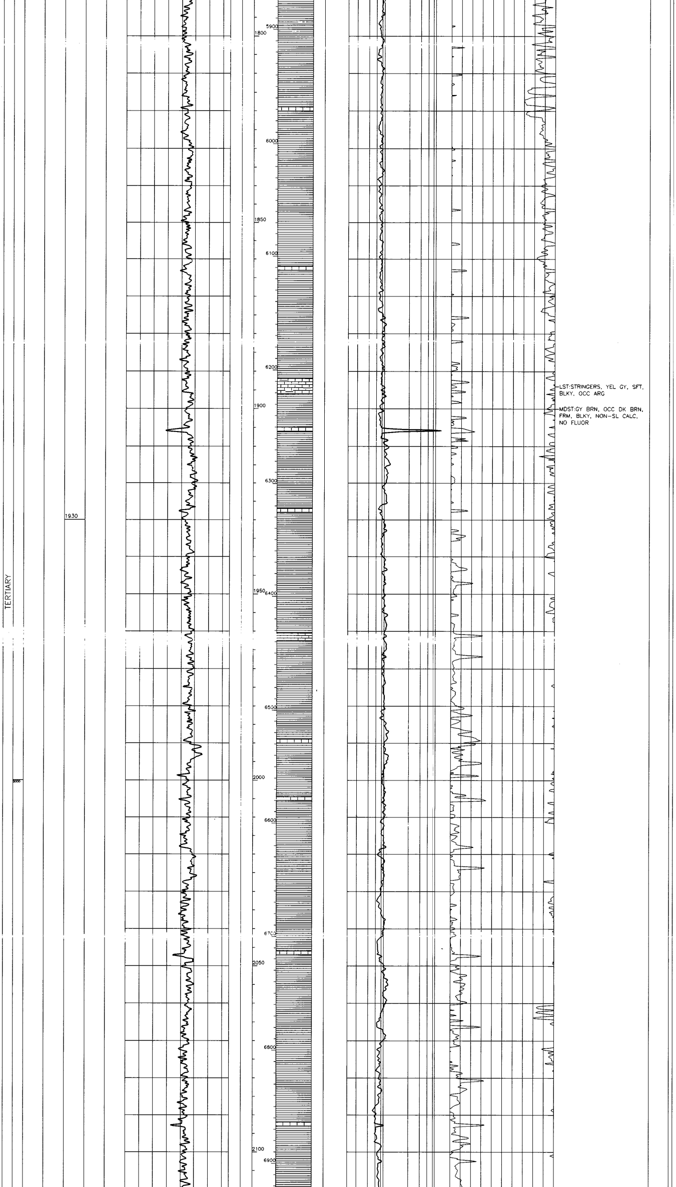
MDST:M-LT GY, SFT, SUBRND,
AMORPH, GRD TO SLT,
SL-NON CALC, NON SWELL

MDST.GY, GRN-GY, RD BRN,
SFT-FRM, RND, BLKY, MOD
CALC, TR PYR, TR GLAUC



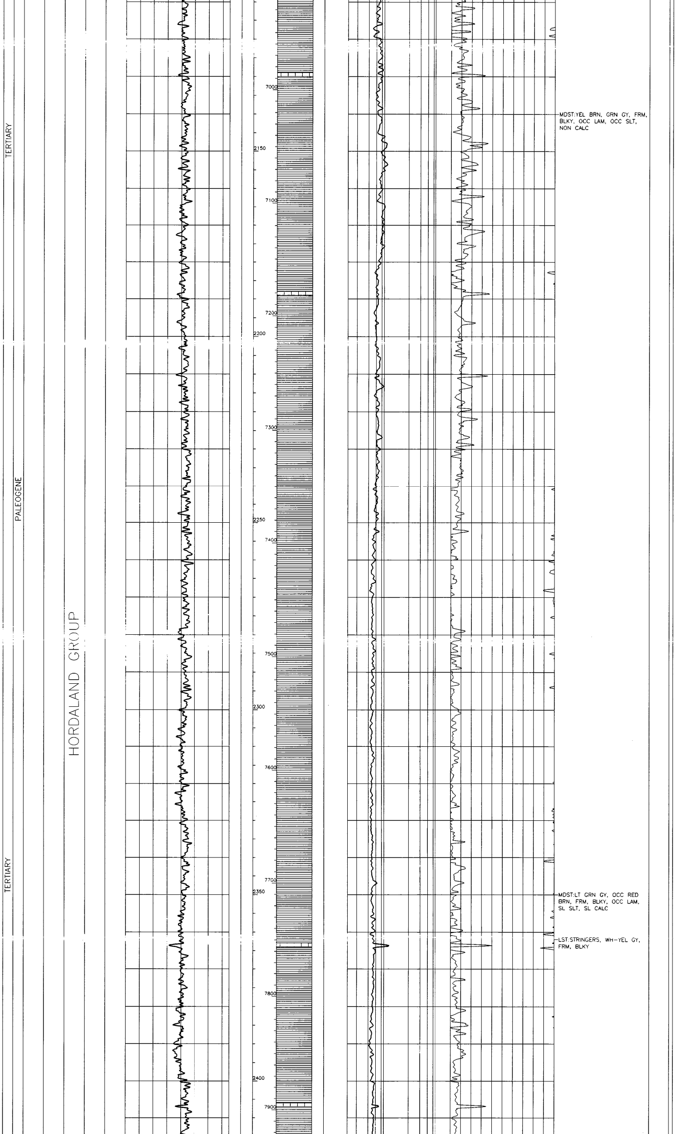
MDST:LT BRN, LT GY,
SFT-FRM, BLKY, TR LST

MDST:GY BRN, LT OLIVE GY,
SFT-FRM, BLKY, OCC SL
SLTY, TR LST



LST:STRINGERS, YEL GY, SFT, BLKY, OCC ARG

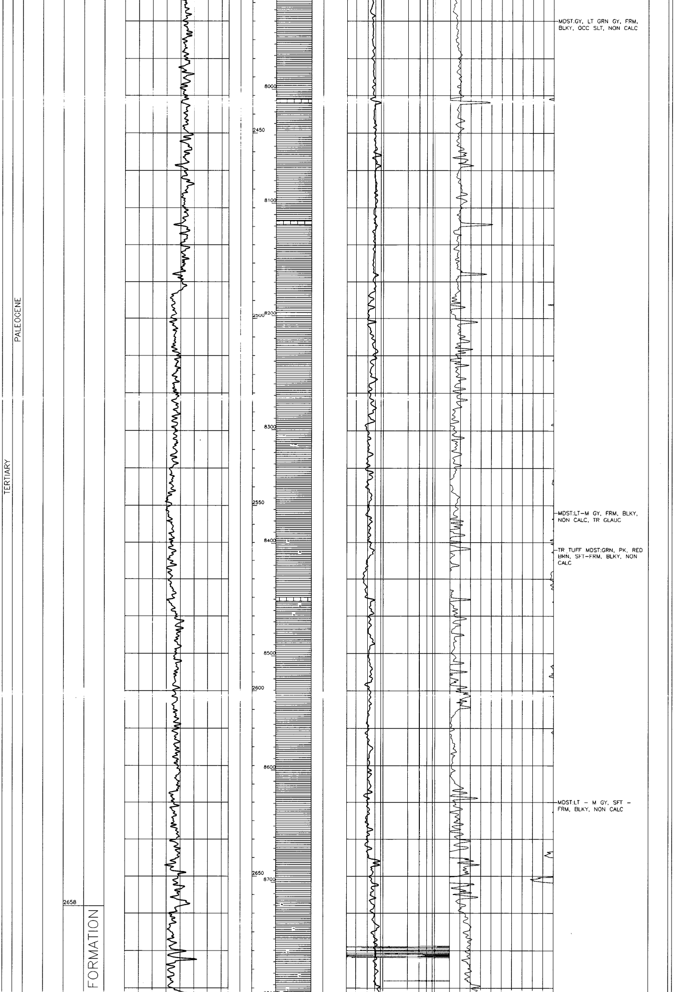
MDST:GY BRN, OCC DK BRN, FRM, BLKY, NON-SL CALC, NO FLUOR



MDST:YEL BRN, GRN GY, FRM, BLKY, OCC LAM, OCC SLT, NON CALC

MDST:LT GRN GY, OCC RED BRN, FRM, BLKY, OCC LAM, SL SLT, SL CALC

LST:STRINGERS, WH-YEL GY, FRM, BLKY

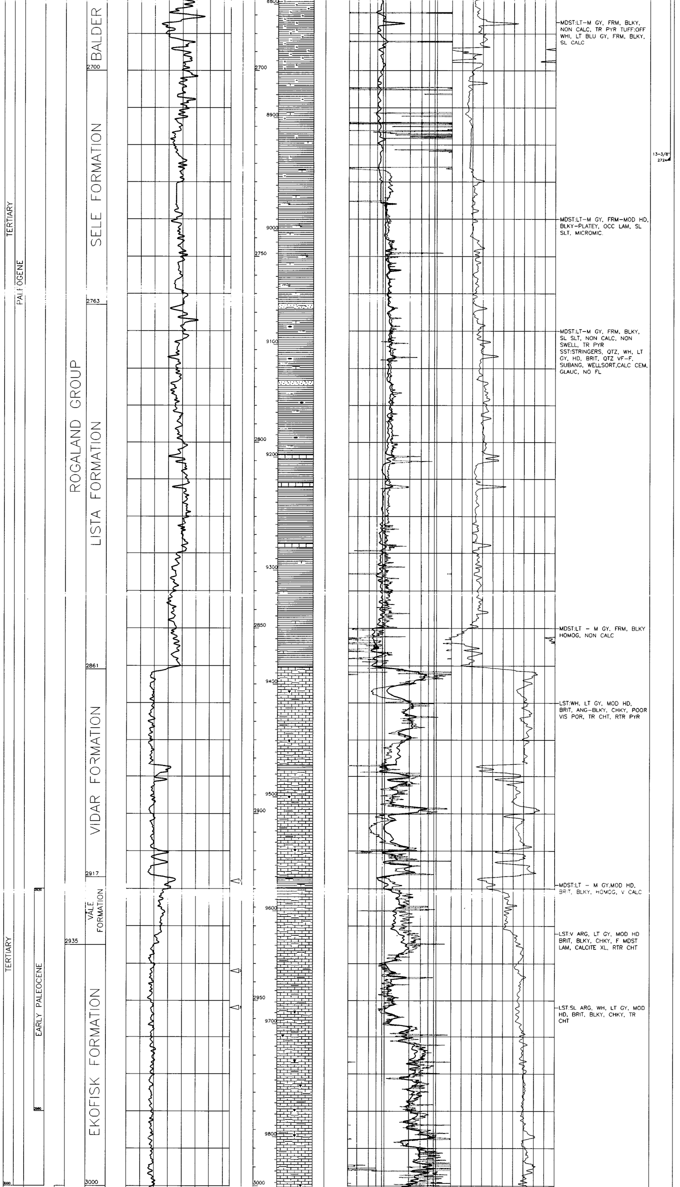


MDST:GY, LT GRN GY, FRM, BLKY, OCC SLT, NON CALC

MDST:LT–M GY, FRM, BLKY, NON CALC, TR GLAUC

TR TUFF MDST:GRN, PK, RED BRN, SFT–FRM, BLKY, NON CALC

MDST:LT – M GY, SFT – FRM, BLKY, NON CALC



MDST:LT–M GY, FRM, BLKY, NON CALC, TR PYR TUFF:OFF WHI, LT BLU GY, FRM, BLKY, SL CALC

MDST:LT–M GY, FRM–MOD HD, BLKY–PLATEY, OCC LAM, SL SLT, MICROMIC.

MDST:LT–M GY, FRM, BLKY, SL SLT, NON CALC, NON SWELL, TR PYR
SST:STRINGERS, QTZ, WH, LT GY, HD, BRIT, QTZ VF–F, SUBANG, WELLSORT,CALC CEM, GLAUC, NO FL

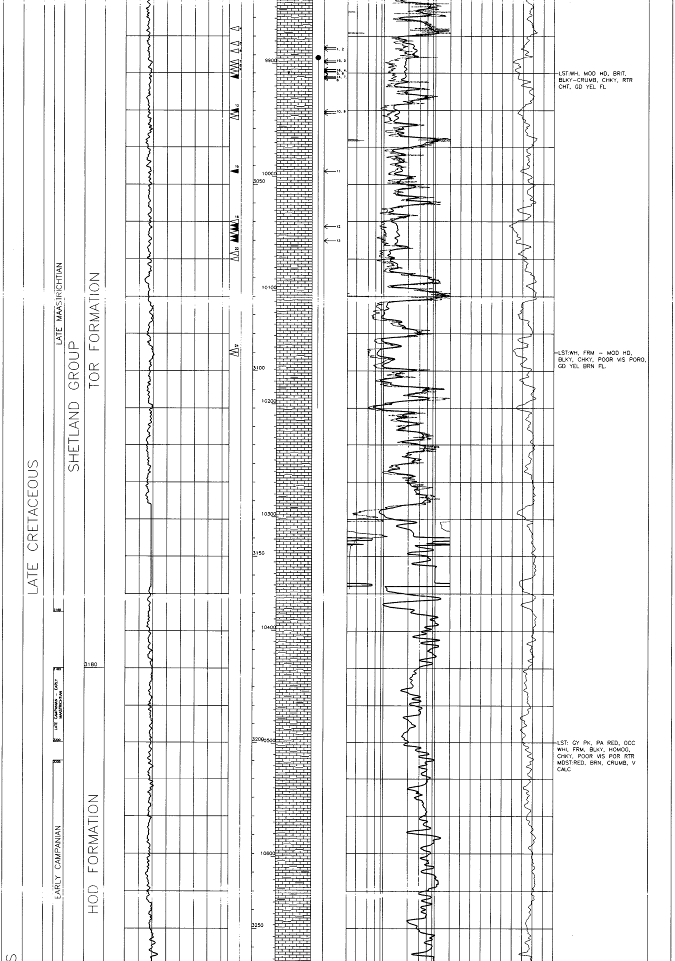
MDST:LT – M GY, FRM, BLKY HOMOG, NON CALC

LST:WH, LT GY, MOD HD, BRIT, ANG–BLKY, CHKY, POOR VIS POR, TR CHT, RTR PYR

MDST:LT – M GY,MOD HD, BRIT, BLKY, HOMOG, V CALC

LST:V ARG, LT GY, MOD HD BRIT, BLKY, CHKY, F MDST LAM, CALCITE XL, RTR CHT

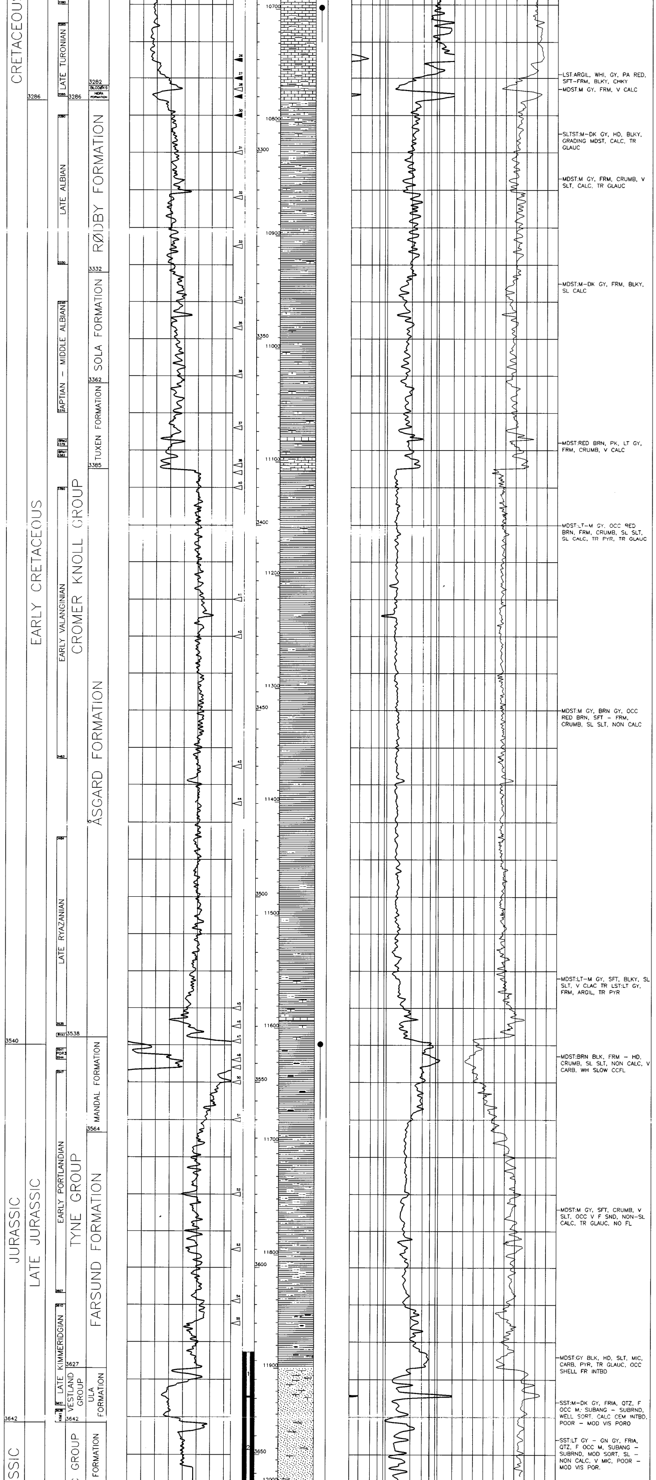
LST:SL ARG, WH, LT GY, MOD HD, BRIT, BLKY, CHKY, TR CHT



LST:WH, MOD HD, BRIT, BLKY-CRUMB, CHKY, RTR CHT, GD YEL FL

LST:WH, FRM – MOD HD, BLKY, CHKY, POOR VIS PORO, GD YEL BRN FL.

LST: GY PK, PA RED, OCC WHI, FRM, BLKY, HOMOG, CHKY, POOR VIS POR RTR MDST:RED, BRN, CRUMB, V CALC



CRETACEOUS
3286
LATE TURONIAN
3282
BLODØKS
HIDRA FORMATION
3286
LATE ALBIAN
RØDBY FORMATION
3332
APTIAN - MIDDLE ALBIAN
SOLA FORMATION
3362
TUXEN FORMATION
3385
BRM2 3379
BRM1 3382
EARLY CRETACEOUS
CROMER KNOLL GROUP
EARLY VALANGINIAN
ÅSGARD FORMATION
LATE RYAZANIAN
RYA1 3538
3540
POR3
MANDAL FORMATION
3564
JURASSIC
LATE JURASSIC
EARLY PORTLANDIAN
TYNE GROUP
FARSUND FORMATION
LATE KIMMERIDGIAN
3627
VESTLAND GROUP
ULA FORMATION
KIM1
3642
3642
SSIC
GROUP
FORMATION
10700
10800
3300
10900
11000
3350
11100
3400
11200
11300
3450
11400
3500
11500
11600
3550
11700
11800
3600
11900
3650
12000
LST:ARGIL, WHI, GY, PA RED, SFT-FRM, BLKY, CHKY
MDST:M GY, FRM, V CALC
SLTST:M-DK GY, HD, BLKY, GRADING MDST, CALC, TR GLAUC
MDST:M GY, FRM, CRUMB, V SLT, CALC, TR GLAUC
MDST:M-DK GY, FRM, BLKY, SL CALC
MDST:RED BRN, PK, LT GY, FRM, CRUMB, V CALC
MDST:LT-M GY, OCC RED BRN, FRM, CRUMB, SL SLT, SL CALC, TR PYR, TR GLAUC
MDST:M GY, BRN GY, OCC RED BRN, SFT - FRM, CRUMB, SL SLT, NON CALC
MDST:LT-M GY, SFT, BLKY, SL SLT, V CLAC TR LST:LT GY, FRM, ARGIL, TR PYR
MDST:BRN BLK, FRM - HD, CRUMB, SL SLT, NON CALC, V CARB, WH SLOW CCFL
MDST:M GY, SFT, CRUMB, V SLT, OCC V F SND, NON-SL CALC, TR GLAUC, NO FL
MDST:GY BLK, HD, SLT, MIC, CARB, PYR, TR GLAUC, OCC SHELL FR INTBD
SST:M-DK GY, FRIA, QTZ, F OCC M, SUBANG - SUBRND, MOD SORT, SL - WELL SORT, CALC CEM INTBD, POOR - MOD VIS PORO
SST:LT GY - GN GY, FRIA, QTZ, F OCC M, SUBANG - SUBRND, MOD SORT, SL - NON CALC, V MIC, POOR - MOD VIS POR.