SIMON PETROLEUM TECHNOLOGY

WELL: 2/1-10

Print: 15443J	Units: [✓ M] F	Top	Bottom	Scale	TD
Length: 28 FT	Initials: JAT	1050	4525	1/500	4526

DIGITAL WIRELINE LOGS PACKAGE
1994
This image may not be used or reproduced without written permission from
SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

U-703

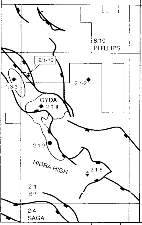
Encl.1

BP NORWAY LIMITED U.A.

WISARD
BP COMPOSITE
2/1-10
SCALE 1:500
MEASURED DEPTH

2/1-10

BLOCK MAP



WELL LOCATION

CO-ORDINATES AT SURFACE

Latitude:	56 57 53.610N
Longitude:	03 01 19.700E
Grid Reference:	501346.22mE 6313619.42mN

VERTICAL WELL

Projection mnemonic:	NUTM31
Geodetic Datum:	ED50

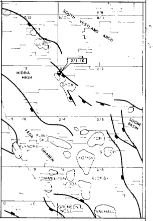
GENERAL WELL DATA

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 (ANCHORED)
DEPTH DATUM: KB   DATUM HEIGHT: 22.0 mAMSL
WATER DEPTH: 67.0 m
DATE SPUDDED: 09-NOV-1991   REACHED TD: 29-DEC-1991
RIG RELEASED: 14-JAN-1992
TOTAL DEPTH: 4525.5 mBKB (WIRELINE)
4503.5 mTVDSS
4525.0 mBKB (DRILLER)
4503.0 mTVDSS
LICENCE: PL164
INTERESTS: STATOIL (DEN NORSKE STATS OLJESELSKAP A/S)
BP NORWAY LIMITED U.A.
CONOCO NORWAY INC. U.A.
SVENSKA PETROLEUM AB

DRILLING CONTRACTOR: ROSS RIG

REGIONAL MAP



LITHOSTRATIGRAPHY	THICKNESS (m) A.V.T.	TOPS (m)	TOPS (m) TVDSS	THICKNESS (m) A.V.T.	CHRONOSTRATIGRAPHY
NORDLAND GROUP	1622.50				
		930.00	908.00		TERTIARY
HORDALAND GROUP	1265.00	1711.50	1689.50		
ROGALAND GROUP	244.00	2976.50	2954.50		
BALDER FORMATION	26.50	2976.50	2954.50		
		2977.00	2955.00		EOCENE
SELE FORMATION	12.00	3003.00	2981.00		
LISTA FORMATION	96.00	3015.00	2993.00		PALEOCENE
VIDAR FORMATION	32.00	3111.00	3089.00		
LISTA FORMATION	25.00	3143.00	3121.00		
VÅLE FORMATION	52.50	3168.00	3146.00		
SHETLAND GROUP	631.00	3220.50	3198.50		
EKOFISK FORMATION	102.00	3220.50	3198.50		
TOR FORMATION	284.50	3322.50	3300.50		
		3323.00	3301.00		CRETACEOUS
		3323.00	3301.00		LATE CRETACEOUS
HOD FORMATION	182.00	3607.00	3585.00		
BLODØKS FORMATION	33.00	3789.00	3767.00		
		3798.00	3774.00		TURONIAN
HIDRA FORMATION	29.50	3822.00	3800.00		
CROMER KNOLL GROUP	275.50	3851.50	3829.50		
RØDBY FORMATION	37.50	3851.50	3829.50		
		3852.00	3830.00		EARLY CRETACEOUS
		3860.00	3838.00		LATE ALBIAN
SOLA FORMATION	25.00	3889.00	3867.00		
		3910.00	3888.00		EARLY APTIAN
TUXEN FORMATION	50.00	3914.00	3892.00		
		3930.00	3908.00		EARLY BARREMIAN
		3955.00	3933.00		LATE HAUTERIVIAN
ÅSGARD FORMATION	163.00	3964.00	3942.00		
		3976.00	3954.00		EARLY VALANGINIAN
		4039.00	4017.00		LATE RYAZANIAN
TYNE GROUP	308.00	4127.00	4105.00		EARLY RYAZANIAN
MANDAL FORMATION	28.50	4127.00	4105.00		
FARSUND FORMATION	191.00	4155.50	4133.50		
UPPER MUDSTONE MEMBER	33.00	4155.50	4133.50		
		4160.00	4138.00		JURASSIC
		4160.00	4138.00		LATE JURASSIC
		4160.00	4138.00		LATE PORTLANDIAN
		4169.00	4147.00		EARLY PORTLANDIAN
GYDA SANDSTONE MEMBER	133.50	4188.50	4166.50		
		4214.35	4192.35		LATE KIMMERIDGIAN
		4276.18	4254.18		'MID' KIMMERIDGIAN
LOWER MUDSTONE MEMBER	24.50	4322.00	4300.00		
HAUGESUND FORMATION	88.50	4346.50	4324.50		
		4371.00	4349.00		EARLY KIMMERIDGIAN
TRIASSIC GROUP	90.00 +	4435.00	4413.00		TRIASSIC
SKAGERRAK FORMATION	90.00 +	4435.00	4413.00		

CONVENTIONAL CORE DATA

CORE NUMBER	TOP DEPTH (m)	BOTTOM DEPTH (m)		STRATIGRAPHIC INTERVAL	LITHOLOGICAL DESCRIPTION
1	4192.00	4219.50		GYDA SANDSTONE MEMBER	Very fine to fine grained bioturbated and glauconittic sandstones Calcareous and argillaceous in parts.
2	4219.50	4245.00		GYDA SANDSTONE MEMBER	
3	4245.00	4271.50		GYDA SANDSTONE MEMBER	
4	4271.50	4277.50		GYDA SANDSTONE MEMBER	
5	4277.50	4287.50		GYDA SANDSTONE MEMBER	

WIRELINE FORMATION TESTS

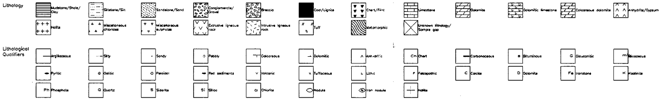
TYPE	TEST No.	TOP DEPTH (m)	FORMATION PRESSURE (psia)	PERM	RES	SAMPLE	COMMENTS ON A TEST
RFT	2A	4193.50				MUD	
RFT	1	4200.70			TI		TIGHT
RFT	2	4205.00			TI		TIGHT
RFT	3	4210.00			TI		TIGHT
RFT	2B	4226.20				WAT	
RFT	4	4226.50	8694.60				7.07 mD/cP
RFT	5	4232.50	8703.90				5.19 mD/cP
RFT	6	4239.00	8714.50				4.02 mD/cP
RFT	7	4243.00	8730.40				SUPERCHARGED
RFT	8	4273.00	8760.90				17.15 mD/cP
RFT	9	4289.00	8786.60				55.59 mD/cP
RFT	10	4292.00	8791.50				53.10 mD/cP
RFT	11	4298.50	8802.90				13.66 mD/cP
RFT	12	4305.00	8817.30				SUPERCHARGED
RFT	13	4311.00			TI		TIGHT

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 FLUIDS B.P.D	FLOWRATE GAS MMSCFGPD	REVERSED VOL. (bbl)	HYDROCARBON GRAVITY OIL	HYDROCARBON GRAVITY GAS	GOR	CGR

THE WELL WAS NOT TESTED

LITHOLOGY SYMBOLS



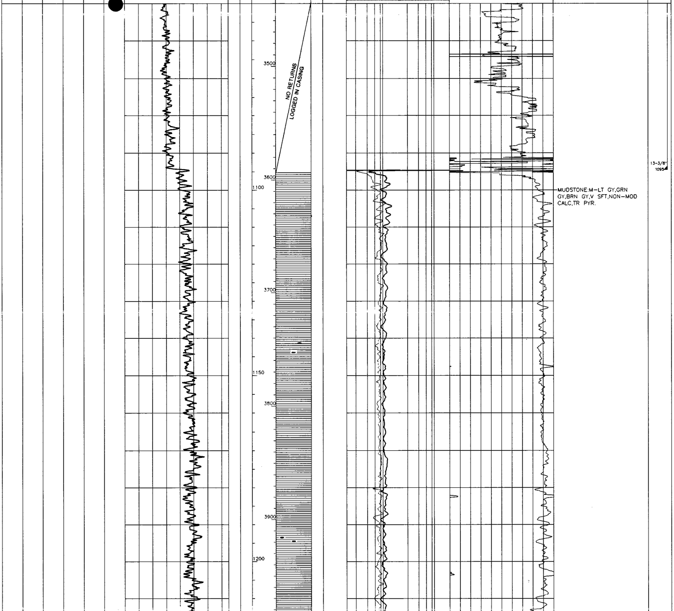
Fossiliferous Material

- Macrofossils
- Bioclastic debris
- Microfossils
- Plant remains
- Shelly debris

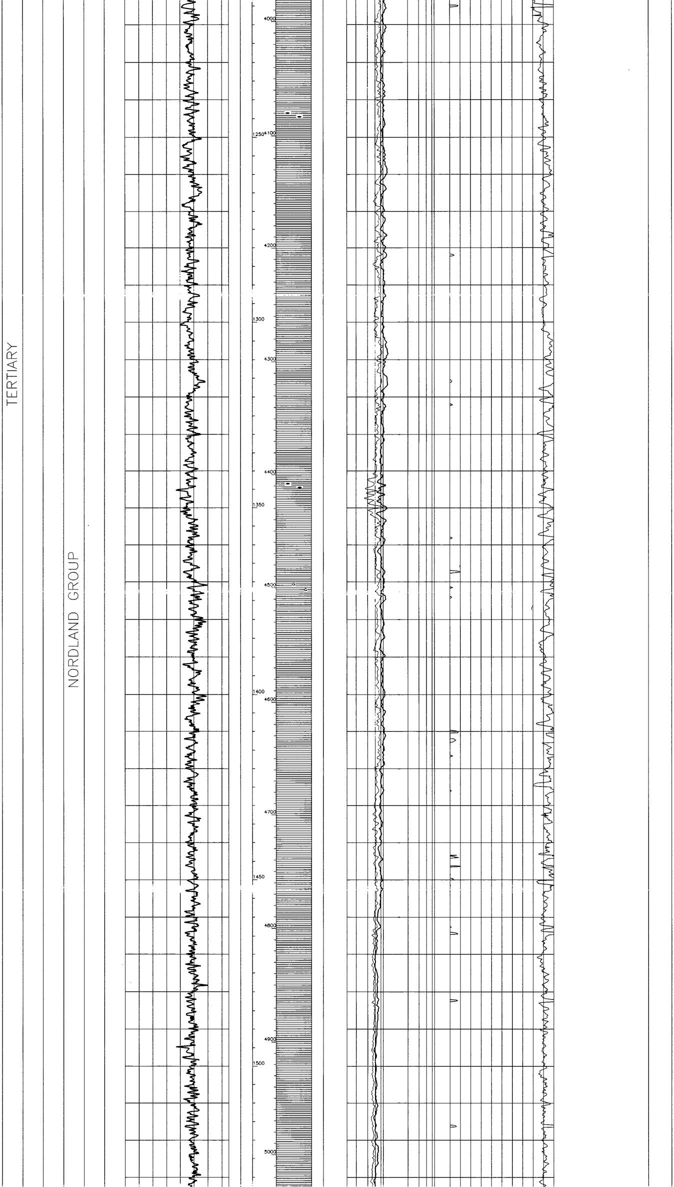
WELL SYMBOLS

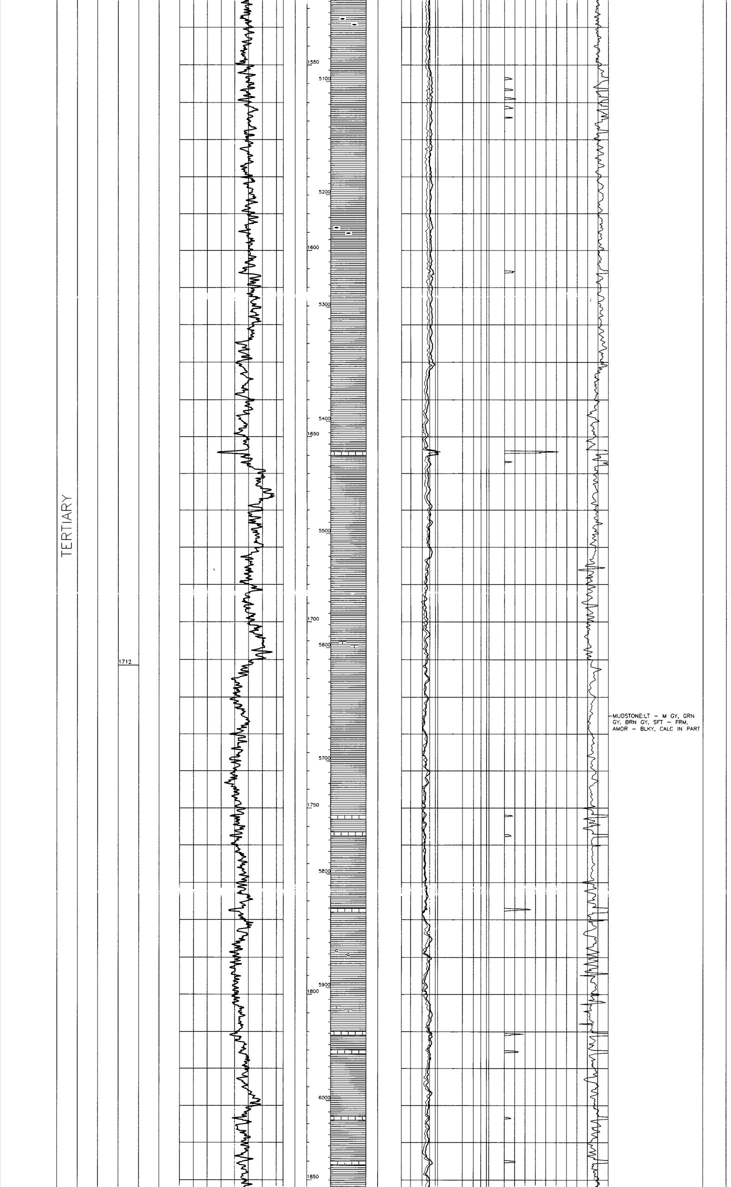
- ← Sample point
- Sidewall Core Recovered
- No Recovery
- Core Interval
- Gas Show
- ● Oil Show
- Oil and Gas Show
- Gas and Condensate Show
- ◇ Hydrocarbon Fluorescence
- Fluid Gain
- Fluid Loss to Formation
- Drill Stem Test
- Casing Shoe
- Liner Hanger

CHRONOSTRAT	LITHOSTRAT	GAMMA RAY LOG	SIDEWALL CORES	CORES	DEPTH	LITHOLOGY	SHOWS	TESTS	RESISTIVITY LOG	SONIC LOG	LITHOLOGICAL DESCRIPTION	CASINGS
Sch: BP Standard Vn: 6	Sch: F196 Vn: 6	(API units) 0.00 – 150.00				Vn: 6						
PERIOD EPOCH AGE	GROUP FORMATION MEMBER	CALIPER (inches) 6.00 – 16.00			M Ft			RFT	ILD(89-3238.5m) (ohm.m) 0.20 – 20.00 ILM(89-3238.5m) (ohm.m) 0.20 – 20.00 LLD(3233-4525.5m) (ohm.m) 0.20 – 20.00 LLS(3233-4525.5m) (ohm.m) 0.20 – 20.00 MSFL(3233-4525.5m) (ohm.m) 0.20 – 20.00	DT (us/ft) 140.00 – 40.00		

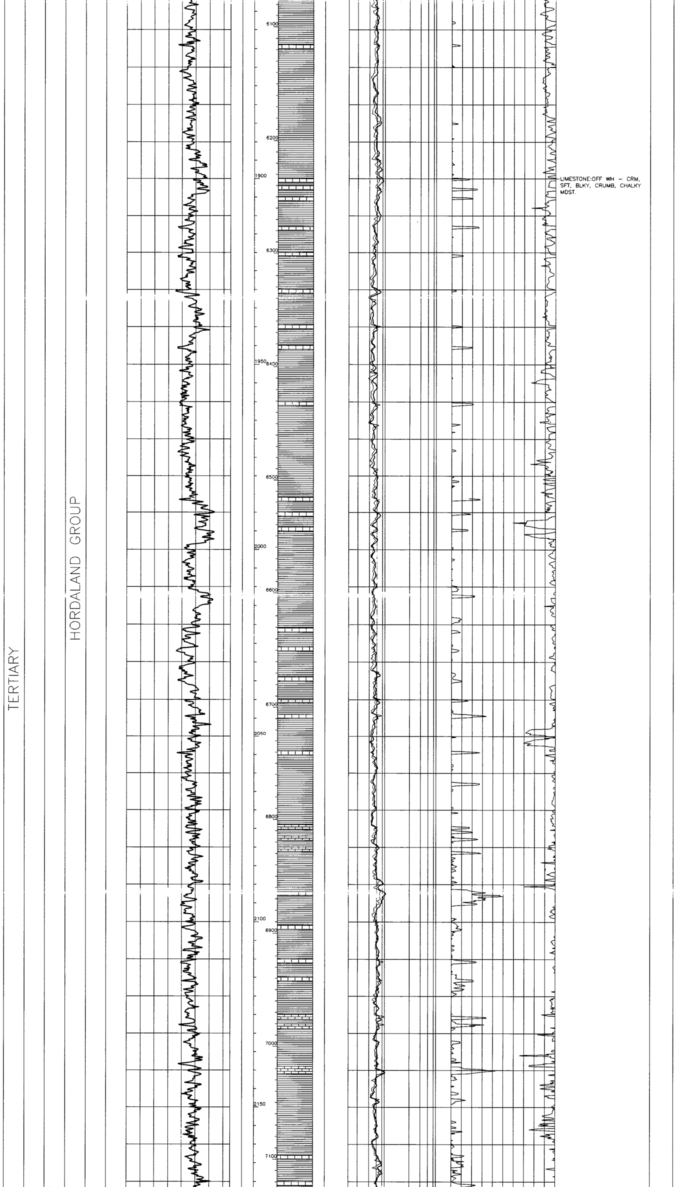


MUDSTONE:M-LT GY,GRN GY,BRN GY,V SFT,NON-MOD CALC,TR PYR.

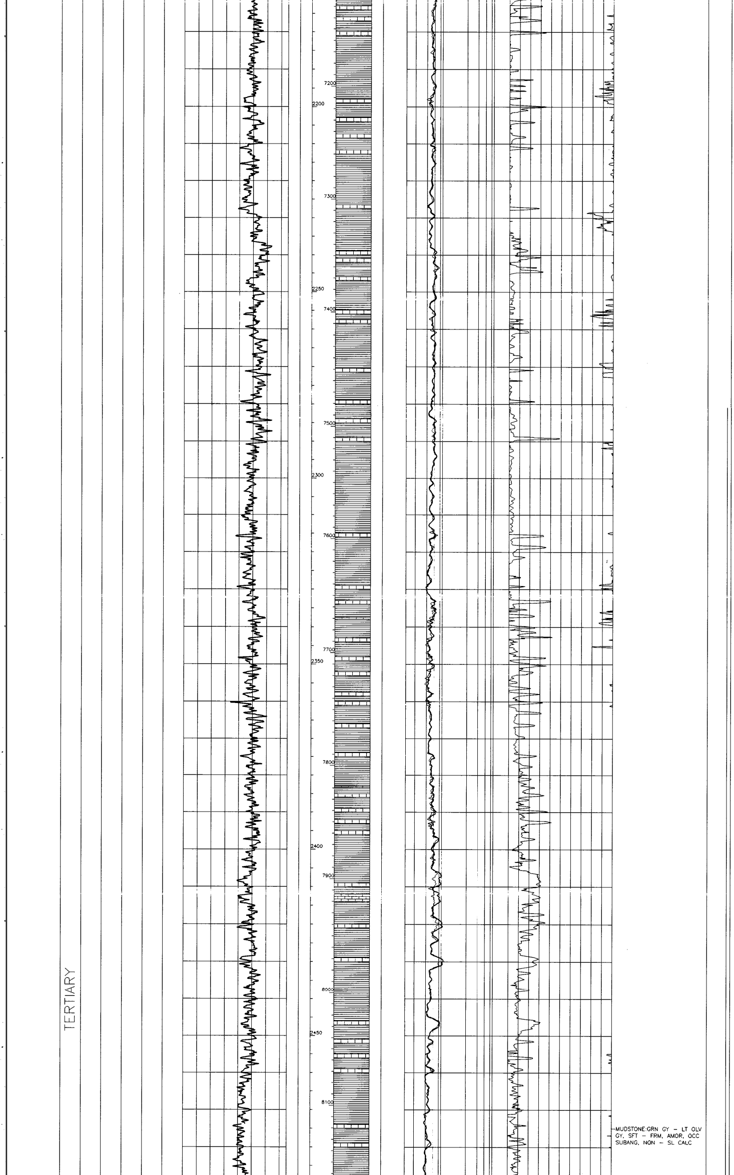




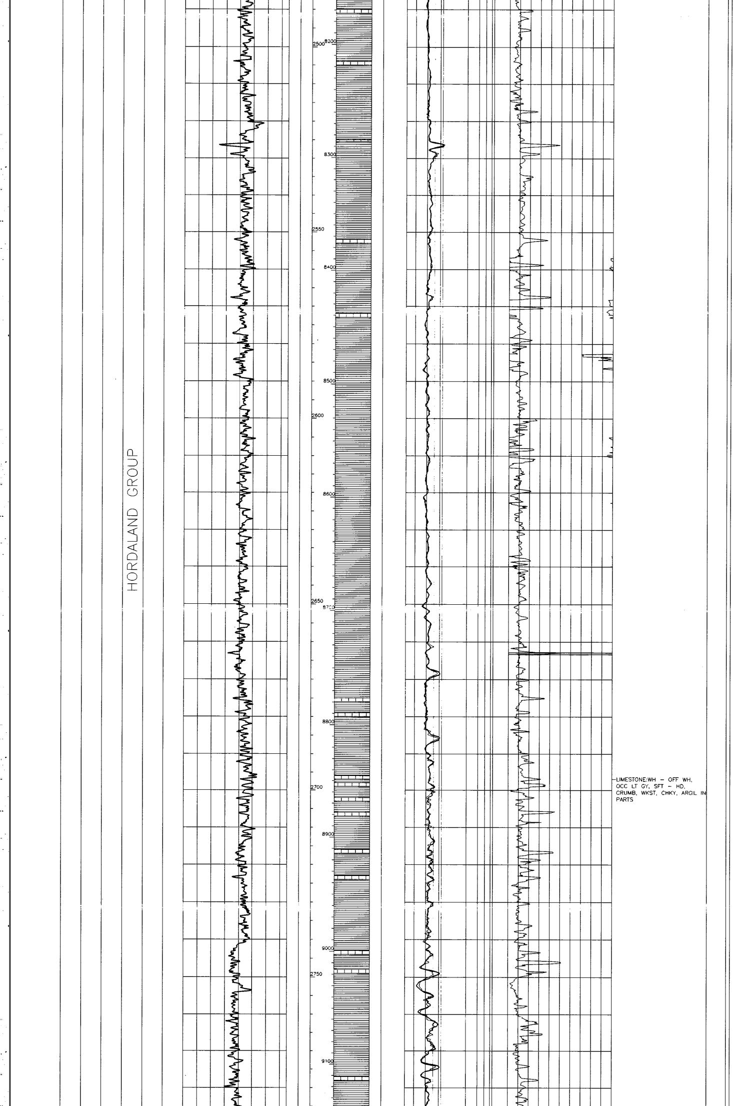
MUDSTONE:LT – M GY, GRN GY, BRN GY, SFT – FRM, AMOR – BLKY, CALC IN PART



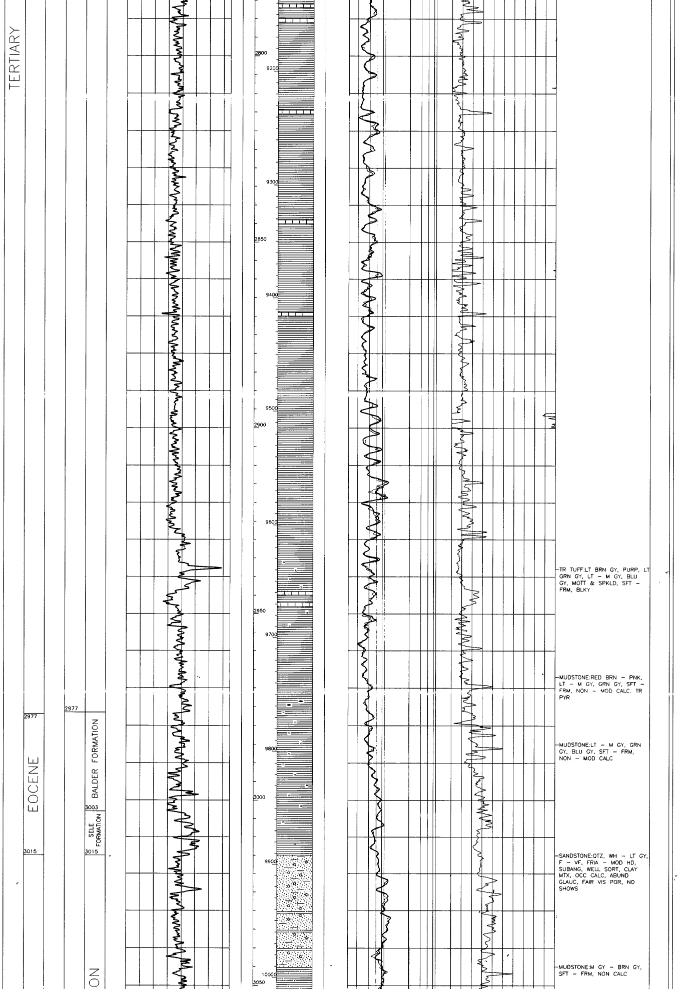
LIMESTONE:OFF WH – CRM, SFT, BLKY, CRUMB, CHALKY MDST.



MUDSTONE:GRN GY – LT OLV GY, SFT – FRM, AMOR, OCC SUBANG, NON – SL CALC



LIMESTONE:WH – OFF WH, OCC LT GY, SFT – HD, CRUMB, WKST, CHKY, ARGIL IN PARTS



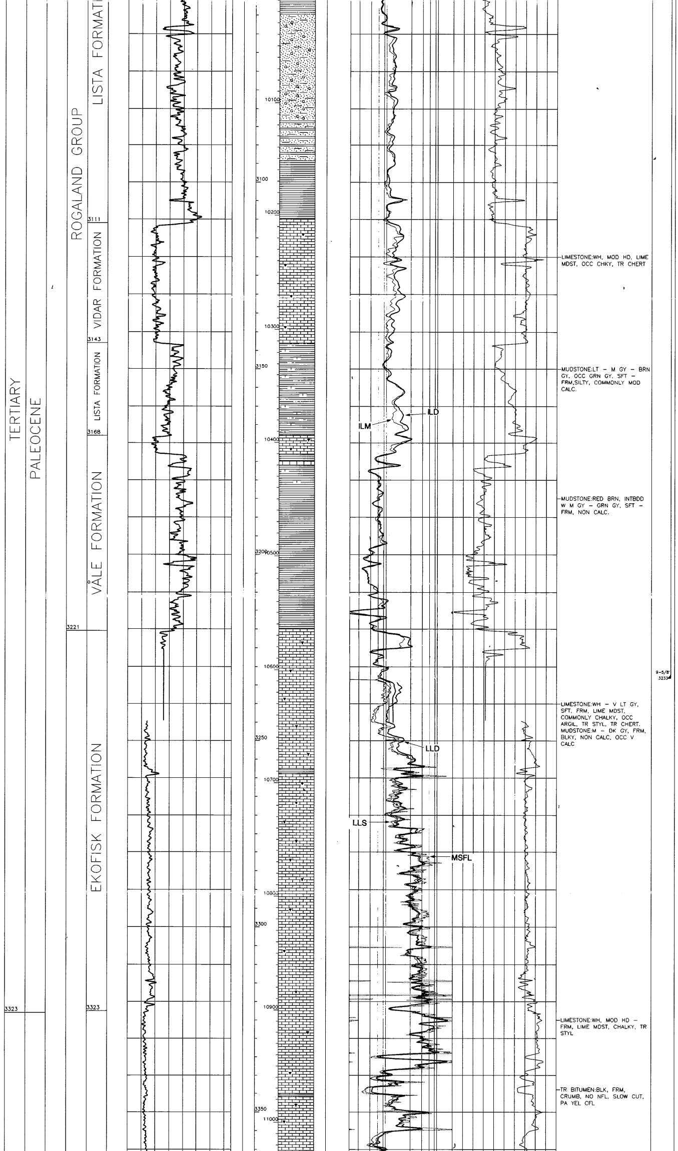
TR TUFF:LT BRN GY, PURP, LT GRN GY, LT – M GY, BLU GY, MOTT & SPKLD, SFT – FRM, BLKY

MUDSTONE:RED BRN – PNK, LT – M GY, GRN GY, SFT – FRM, NON – MOD CALC. TR PYR

MUDSTONE:LT – M GY, GRN GY, BLU GY, SFT – FRM, NON – MOD CALC

SANDSTONE:QTZ, WH – LT GY, F – VF, FRIA – MOD HD, SUBANG, WELL SORT, CLAY MTX, OCC CALC, ABUND GLAUC, FAIR VIS POR, NO SHOWS

MUDSTONE:M GY – BRN GY, SFT – FRM, NON CALC



LIMESTONE:WH, MOD HD, LIME MDST, OCC CHKY, TR CHERT

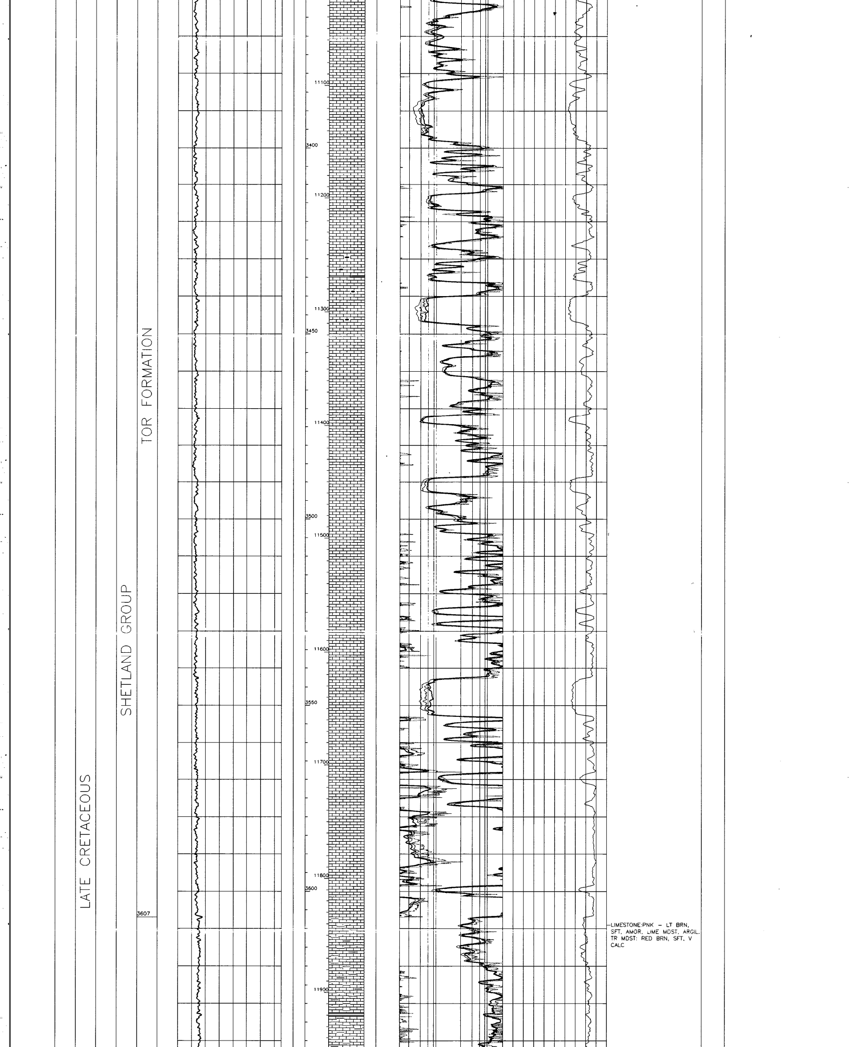
MUDSTONE:LT – M GY – BRN GY, OCC GRN GY, SFT – FRM,SILTY, COMMONLY MOD CALC.

MUDSTONE:RED BRN, INTBDD W M GY – GRN GY, SFT – FRM, NON CALC.

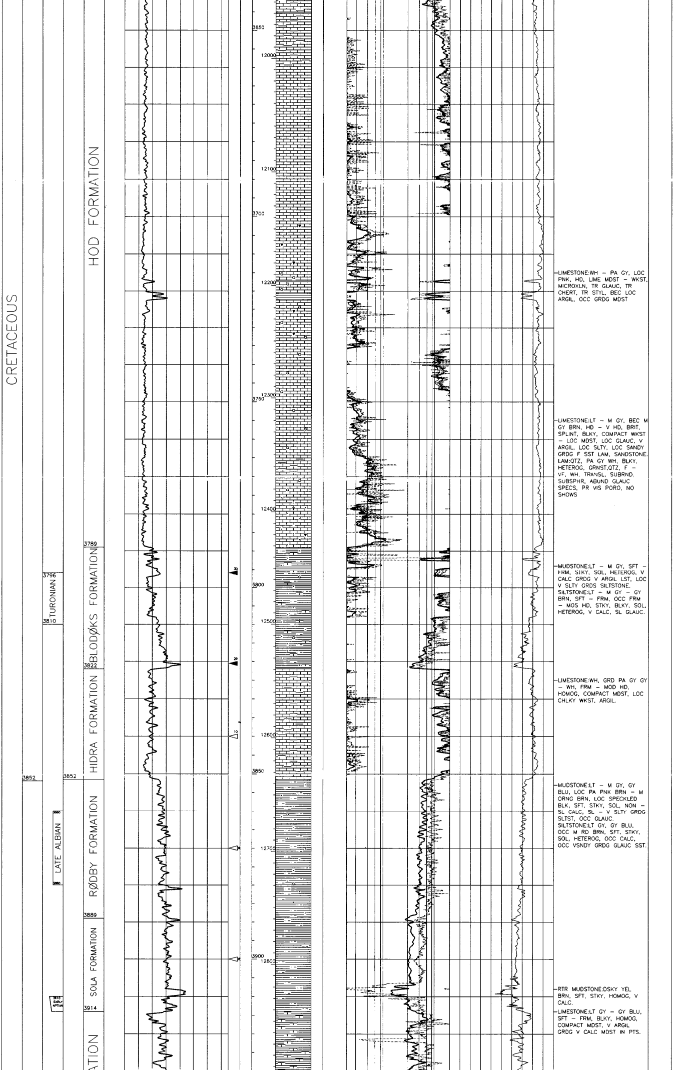
LIMESTONE:WH – V LT GY, SFT, FRM, LIME MDST, COMMONLY CHALKY, OCC ARGIL, TR STYL, TR CHERT. MUDSTONE:M – DK GY, FRM, BLKY, NON CALC, OCC V CALC

LIMESTONE:WH, MOD HD – FRM, LIME MDST, CHALKY, TR STYL

TR BITUMEN:BLK, FRM, CRUMB, NO NFL, SLOW CUT, PA YEL CFL



LIMESTONE:PNK – LT BRN, SFT, AMOR, LIME MDST, ARGIL. TR MDST: RED BRN, SFT, V CALC



LIMESTONE:WH – PA GY, LOC PNK, HD, LIME MDST – WKST, MICROXLN, TR GLAUC, TR CHERT, TR STYL, BEC LOC ARGIL, OCC GRDG MDST

LIMESTONE:LT – M GY, BEC M GY BRN, HD – V HD, BRIT, SPLINT, BLKY, COMPACT WKST – LOC MDST, LOC GLAUC, V ARGIL, LOC SLTY, LOC SANDY GRDG F SST LAM, SANDSTONE. LAM:QTZ, PA GY WH, BLKY, HETEROG, GRNST,QTZ, F – VF, WH, TRANSL, SUBRND, SUBSPHR, ABUND GLAUC SPECS, PR VIS PORO, NO SHOWS

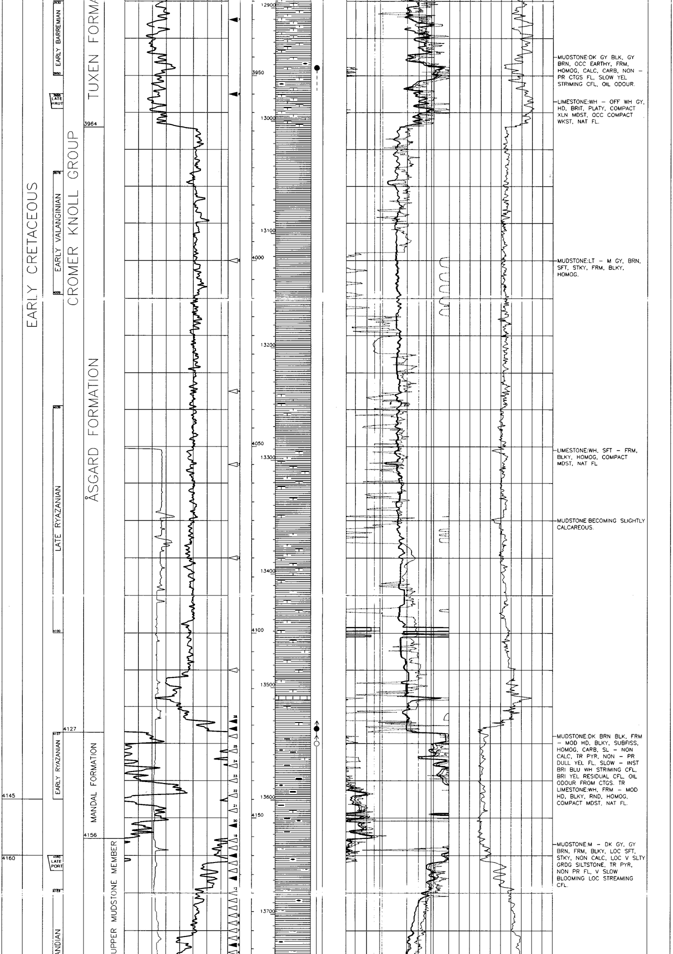
MUDSTONE:LT – M GY, SFT – FRM, STKY, SOL, HETEROG, V CALC GRDG V ARGIL LST, LOC V SLTY GRDS SILTSTONE. SILTSTONE:LT – M GY – GY BRN, SFT – FRM, OCC FRM – MOS HD, STKY, BLKY, SOL, HETEROG, V CALC, SL GLAUC.

LIMESTONE:WH, GRD PA GY GY – WH, FRM – MOD HD, HOMOG, COMPACT MDST, LOC CHLKY WKST, ARGIL.

MUDSTONE:LT – M GY, GY BLU, LOC PA PNK BRN – M ORNG BRN, LOC SPECKLED BLK, SFT, STKY, SOL, NON – SL CALC, SL – V SLTY GRDG SLTST, OCC GLAUC. SILTSTONE:LT GY, GY BLU, OCC M RD BRN, SFT, STKY, SOL, HETEROG, OCC CALC, OCC VSNDY GRDG GLAUC SST.

RTR MUDSTONE:DSKY YEL BRN, SFT, STKY, HOMOG, V CALC.

LIMESTONE:LT GY – GY BLU, SFT – FRM, BLKY, HOMOG, COMPACT MDST, V ARGIL GRDG V CALC MDST IN PTS.



MUDSTONE:DK GY BLK, GY BRN, OCC EARTHY, FRM, HOMOG, CALC, CARB, NON - PR CTGS FL, SLOW YEL STRIMING CFL, OIL ODOUR.

LIMESTONE:WH - OFF WH GY, HD, BRIT, PLATY, COMPACT XLN MDST, OCC COMPACT WKST, NAT FL.

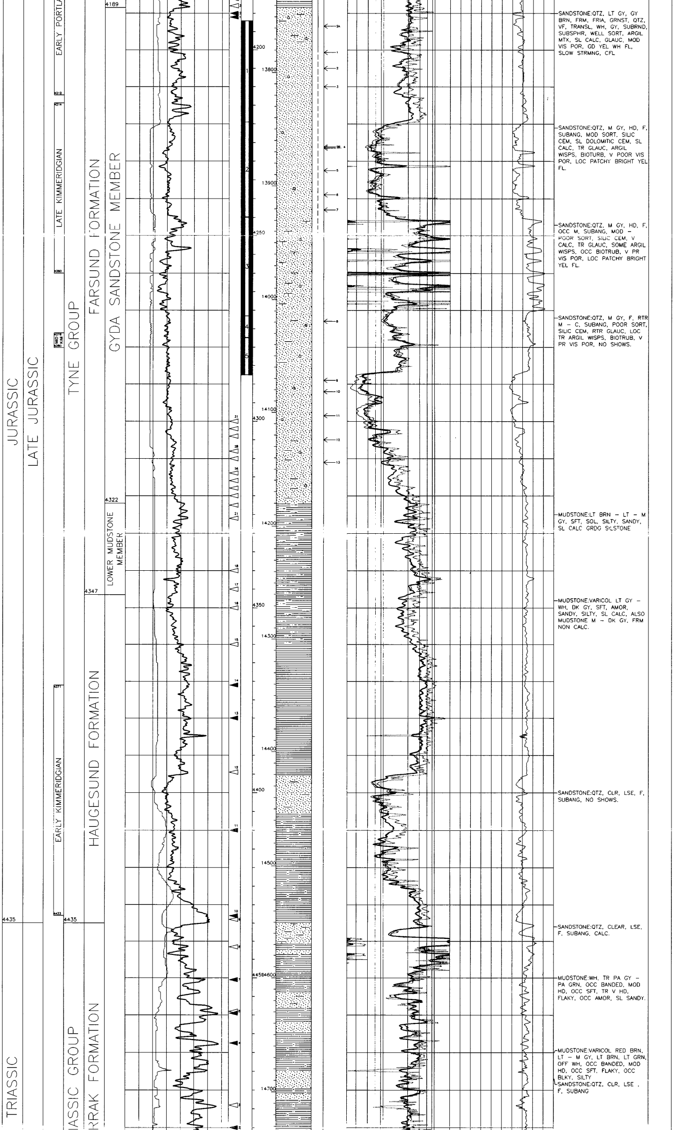
MUDSTONE:LT - M GY, BRN, SFT, STKY, FRM, BLKY, HOMOG.

LIMESTONE:WH, SFT - FRM, BLKY, HOMOG, COMPACT MDST, NAT FL

MUDSTONE:BECOMING SLIGHTLY CALCAREOUS.

MUDSTONE:DK BRN BLK, FRM - MOD HD, BLKY, SUBFISS, HOMOG, CARB, SL - NON CALC, TR PYR, NON - PR DULL YEL FL, SLOW - INST BRI BLU WH STRIMING CFL, BRI YEL RESIDUAL CFL, OIL ODOUR FROM CTGS. TR LIMESTONE:WH, FRM - MOD HD, BLKY, RND, HOMOG, COMPACT MDST, NAT FL.

MUDSTONE:M - DK GY, GY BRN, FRM, BLKY, LOC SFT, STKY, NON CALC, LOC V SLTY GRDG SILTSTONE, TR PYR, NON PR FL, V SLOW BLOOMING LOC STREAMING CFL.



SANDSTONE:QTZ, LT GY, GY BRN, FRM, FRIA, GRNST, QTZ, VF, TRANSL, WH, GY, SUBRND, SUBSPHR, WELL SORT, ARGIL MTX, SL CALC, GLAUC, MOD VIS POR, GD YEL WH FL, SLOW STRMNG, CFL

SANDSTONE:QTZ, M GY, HD, F, SUBANG, MOD SORT, SILIC CEM, SL DOLOMITIC CEM, SL CALC, TR GLAUC, ARGIL WISPS, BIOTURB, V POOR VIS POR, LOC PATCHY BRIGHT YEL FL.

SANDSTONE:QTZ, M GY, HD, F, OCC M, SUBANG, MOD – POOR SORT, SILIC CEM, V CALC, TR GLAUC, SOME ARGIL WISPS, OCC BIOTRUB, V PR VIS POR, LOC PATCHY BRIGHT YEL FL.

SANDSTONE:QTZ, M GY, F, RTR M – C, SUBANG, POOR SORT, SILIC CEM, RTR GLAUC, LOC TR ARGIL WISPS, BIOTRUB, V PR VIS POR, NO SHOWS.

MUDSTONE:LT BRN – LT – M GY, SFT, SOL, SILTY, SANDY, SL CALC GRDG SILSTONE

MUDSTONE:VARICOL LT GY – WH, DK GY, SFT, AMOR, SANDY, SILTY, SL CALC, ALSO MUDSTONE M – DK GY, FRM NON CALC.

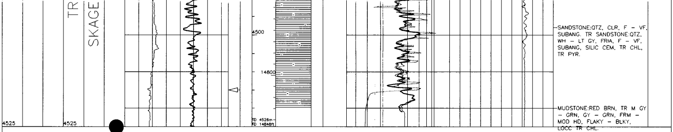
SANDSTONE:QTZ, CLR, LSE, F, SUBANG, NO SHOWS.

SANDSTONE:QTZ, CLEAR, LSE, F, SUBANG, CALC.

MUDSTONE:WH, TR PA GY – PA GRN, OCC BANDED, MOD HD, OCC SFT, TR V HD, FLAKY, OCC AMOR, SL SANDY.

MUDSTONE:VARICOL RED BRN, LT – M GY, LT BRN, LT GRN, OFF WH, OCC BANDED, MOD HD, OCC SFT, FLAKY, OCC BLKY, SILTY

SANDSTONE:QTZ, CLR, LSE , F, SUBANG



SIDEWALL CORE DESCRIPTIONS

LOGGING RUN No.	CORE No.	DEPTH (m)	RECOVERY	LITHOLOGICAL DESCRIPTION
3C	13		LOST BULLET	
2B	20		MISFIRE	
2B	19		MISFIRE	
3C	30	3795.00	POOR RECOVERY	LST:LT GY-WH, HETEROG, CKY WKST-PKST, GLAUC, V ARGIL
3C	29	3820.50	POOR RECOVERY	SST:LT GY BLU, GRNST, QTZ, F, CALC CEM, ARGIL, GLAUC, MDST:LT-M BRN, V CALC, V SLTY
2A	10	3840.00	LOST BULLET	
2A	9	3870.00	MISFIRE	
2A	8	3900.00	LOST BULLET	
2A	7	3935.00	POOR RECOVERY	MDST:DK GY BLK, M HD, HOMOG, V CALC
2A	6	3955.00	POOR RECOVERY	LST:M GY, M HD, HOMOG, TR PYR
2A	5	4000.00	LOST BULLET	
2A	4	4035.00	LOST BULLET	
2A	3	4055.00	LOST BULLET	
2A	2	4080.00	LOST BULLET	
2A	1	4110.00	LOST BULLET	
3C	28	4124.00	POOR RECOVERY	MDST:LT – M GY, HOMOG, V CALC
3C	27	4126.00	POOR RECOVERY	MDST:M – DK GY BRN, HOMOG, CALC
3C	26	4128.00	LOST BULLET	
3C	25	4132.00	LOST BULLET	
3C	24	4136.00	LOST BULLET	
3C	23	4140.00	LOST BULLET	
3C	22	4144.00	LOST BULLET	
3C	21	4148.00	LOST BULLET	
3C	20	4152.00	POOR RECOVERY	MDST:DK BRN BLK, CARB, SL SLTY
3C	19	4156.00	LOST BULLET	
3C	18	4158.00	LOST BULLET	
3C	17	4160.00	POOR RECOVERY	MDST:DK BRN BLK, SL CARB, HOMOG, SL SLTY
3C	16	4162.00	LOST BULLET	
3C	15	4164.00	LOST BULLET	
3C	14	4166.00	POOR RECOVERY	MDST:DK BRN BLK, HOMOG, CARB, SL SLTY, LOC CALC
3C	12	4170.00	LOST BULLET	
3C	11	4172.00	LOST BULLET	
3C	10	4174.00	LOST BULLET	
3C	9	4176.00	LOST BULLET	
3C	8	4178.00	LOST BULLET	
3C	7	4180.00	LOST BULLET	
3C	6	4182.00	LOST BULLET	
3C	5	4184.00	POOR RECOVERY	SLTST:L – M GY, HETEROG, OCC SNDY & CALC
3C	4	4186.00	LOST BULLET	
3C	3	4188.00	LOST BULLET	
3C	2	4190.00	POOR RECOVERY	SST:M BRN, GRNST, QTZ, V F, M W SORT, CALC CEM, ARGIL
3C	1	4191.00	POOR RECOVERY	SST/SLTST:M BRN, GRN ST, QTZ, V F – SLT, M W SORT, MIN CALC CEM ARGIL
2B	31	4300.00	LOST BULLET	
2B	30	4302.00	MISFIRE	
2B	29	4304.00	MISFIRE	
2B	28	4308.00	MISFIRE	
2B	27	4310.00	MISFIRE	
2B	26	4314.00	MISFIRE	
2B	25	4316.00	MISFIRE	
2B	24	4318.00	MISFIRE	
2B	23	4320.00	MISFIRE	
2B	22	4322.50	MISFIRE	
2B	21	4326.00	MISFIRE	
2B	18	4340.00	MISFIRE	
2B	17	4345.00	MISFIRE	
2B	16	4350.00	MISFIRE	
2B	15	4360.00	MISFIRE	
2B	14	4371.00	POOR RECOVERY	SLTST:M GY, HETEROG, TR MICA, SNDY, CALC
2B	13	4380.00	POOR RECOVERY	SLTST:M GY, HETEROG, TR MICA, CALC
2B	12	4394.50	MISFIRE	
2B	11	4410.00	POOR RECOVERY	SST:PA BRN, WH, HETEROG, GRNST, QTZ, V F, ARGIL, MUDCLASTS
2B	10	4433.00	POOR RECOVERY	MDST:M – DK GY, HOMOG, SLTY & SND IN LENSES
2B	9	4434.00	MISFIRE	
2B	8	4441.50	LOST BULLET	
2B	7	4450.50	POOR RECOVERY	SST:LT BLU GY, GRNST, QTZ, V F, ARGIL
2B	6	4459.00	MISFIRE	
2B	5	4459.50	POOR RECOVERY	MDST:M RED BRN, MICA, V S LTY & SNDY SST:GY BLU, GRNST, QTZ, V F–F, ARGIL, MICA
2B	4	4467.50	POOR RECOVERY	SLTST:M RED BRN, LOC CALC, MICA SST:LT BLY GY, GRNST, QTZ, V F, M W SORT, QTZ CEM, ARGIL, MICA
2B	3	4484.00	MISFIRE	
2B	2	4490.00	POOR RECOVERY	SST:LT BRN, GRNST, QTZ, V F, W SORT, SIL & CALC CEM, ARGIL
2B	1	4515.00	LOST BULLET	

2/1 10