069-20001 9'

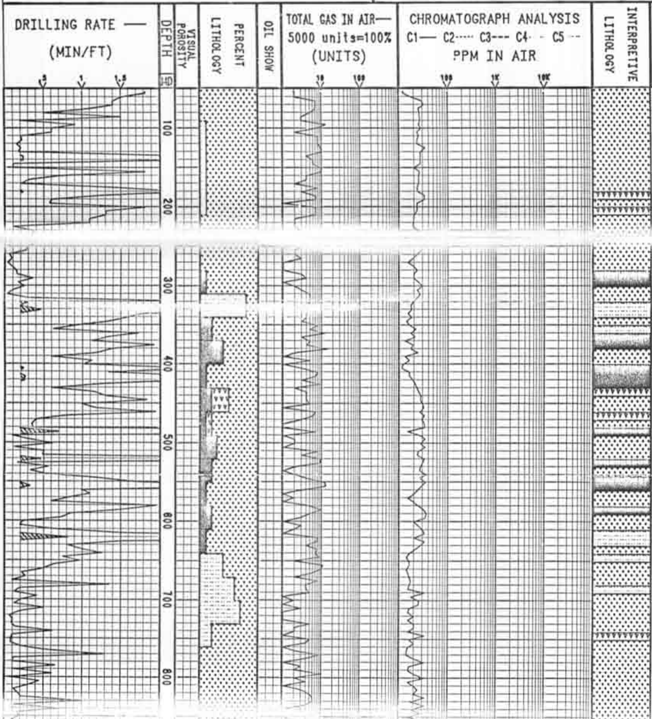
NL BAROID PETROLEUM SERVICES
BLS-2000 Computerized Log

WELL AMOCO SPENCE TRUST NO. 1
COMPANY AMOCO PRODUCTION COMPANY
LOCATION DUNKLIN COUNTY, MISSOURI

LEGEND
NB New Bit
NR No Returns
TG Trip Gas
DC Depth Corr
NCB New Core Bit
CO Circulate Out
CG Connection Gas
TCL Trip Chlorides
CKF Check for Flow
LAT Log after Trip
DST Drill Stem Test
DS Direc Survey

Dolomite ▨ Limestone ▨ Shale ▨ Siltstone ▨ Sand ▨

BAROID LOGGING SYSTEMS
1" MUD LOG



SAMPLE DESCRIPTION and REMARKS

24" CONDUCTOR SET AT 60'
NB#1 SEC S33J 20"

11-27-87

SD WH CLR CRS GR SBANG-RND
P SRT UNCONS

GRV SDS CHT YEL CLR HD

SET 13" CSG. AT 233'
NB#2 SEC S33S 14 3/4"

LS WH CRM TN DK BRN F-MICROXLN
HD DNS

TOP OF CLAIBORNE GROUP 278'

SD CLR WH M-CRS GR SBRND-ANG
UNCONS

SD CLR WH M-CRS GR SBRND-ANG
SLT DK BRN BLK SFT

SD CLR F-M GR SBANG-ANG UNCONS

SD CLR WH F-CRS GR SBRND P SRT
UNCONS-LSLY CONSOL TR FOSS
TR PYR

LIG BRN BLK SFT

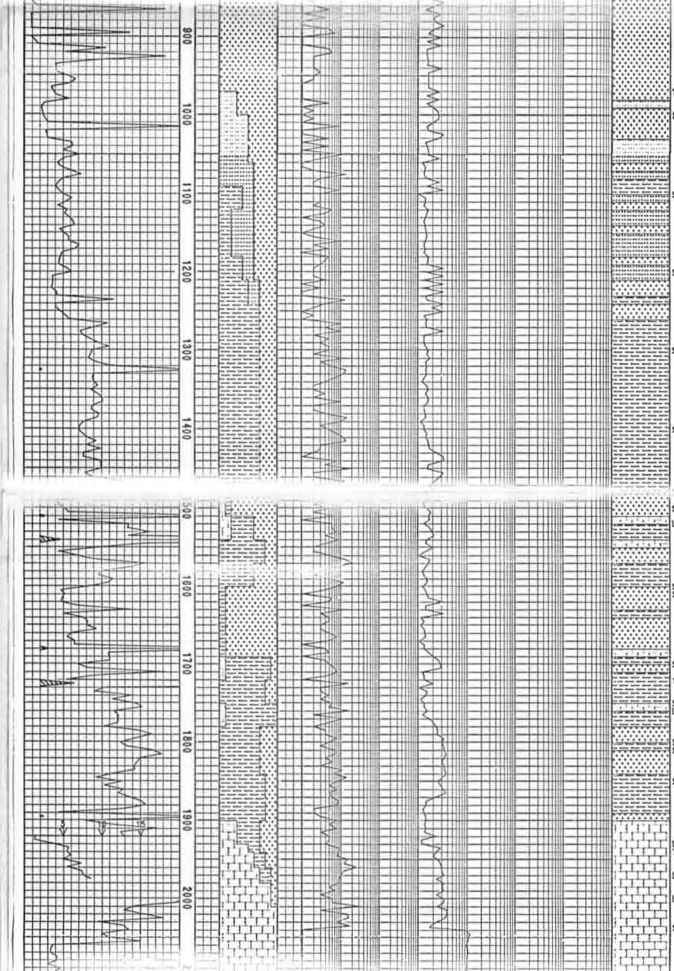
TOP OF FLOUR ISLAND FM. 572'

SD CLR M-CRS GR SBANG P SRT
UNCONS
LIG BLK BRN SFT

TOP OF FT. PILLOW FM. 688'

SLT LT GY SDY V SFT

SD WH CLR FROS F-M GR SBANG-RND
M SRT TR LIG TR GLAUC UNCONS



TOP OF PORTERS CREEK SHALE 977'

SD WH CLR F GR SBANG P SRT

SH LT GY SFT SLTY

SH LT-M GY SFT SLTY

SH M-DK GY SFT FRM SDY SLTY SLI CALC

SH M GY V SFT SDY SLTY SLI CALC

TOP OF UPPER CRETACEOUS 1488'

SD LT GY WH CLR F GR SBRND UNCONS
LS GY TN BU F XLN

SD CLR F-M GR W CONSOL I.P.
SH DK GY SLTY SFT GLAUC MIC

SH DK GY SLTY MIC GLAUC

12-2-87

SH DK GY SLTY GLAUC
LS BU TN F XLN

SH GY GN ABD PYR GLAUC
SD CLR WH F-M GR W CONSOL I.P.

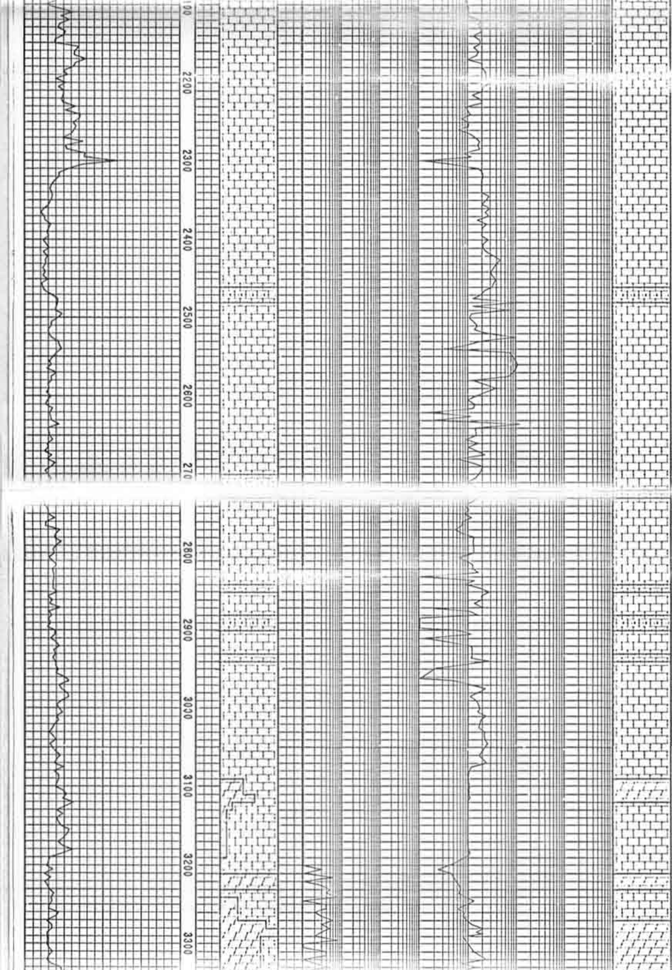
SH GY GN ABD PYR GLAUC

LS BRN TN BU F-MICROXLN HD DNS
TOP OF UPPER KNOX 1952'

DEPTH CORR.

LS DK GY F XLN V HD

SET 10 3/4" CSG. AT 2037'



LS WH CRM TN DK BRN SUC F GR SLI SLTY SLI ARG

LS WH CRM TN DK BRN SUC SLTY ARG

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

12-09-87

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

NB #4 HTC ATJ-33 9 1/2

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

12-10-87

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN TR OOL TR PYR

LS WH CRM TN DK BRN HD DNS SUC F-MICROXLN TR OOL TR PYR

LS CRM TN DK BRN HD DNS SUC F GR INC IN SUC

LS WH CRM TN DK BRN HD DNS SUC F GR

LS WH CRM TN DK BRN HD F-MICROXLN

LS WH CRM TN DK BRN HD F-MICROXLN

LS WH CRM TN DK BRN HD F-MICROXLN

LS WH CRM TN DK BRN F-MICROXLN

12-11-87

LS WH CRM TN DK BRN V SDY F-MICROXLN OOL

LS WH CRM MICROXLN HD DNS

LS WH CRM MICROXLN HD DNS

LS CRM TN BRN HD DNS F-MICROXLN TR OOL

LS CRM TN BRN GY HD DNS SUC F-MICROXLN SLTY

LS WH CRM TN HD DNS SUC F-MICROXLN TR OOL

LS WH CRM TN SUC F-MICROXLN

LS WH CRM BRN SUC F-MICROXLN SDY TR CALC

LS WH CRM TN F-MICROXLN SDY TR CALC

LS WH CRM TN F-MICROXLN SDY

12-12-87

LS WH CRM TN F-MICROXLN SDY TR CALC

TOP OF MIDDLE KNOX 3090'

DOL WH LT GY F-XLN

LS WH CRM TN HD DNS MICROXLN TR CLR CALC

NB #5 HTC ATJ-33 9 1/2

LS WH CRM TN BRN MICROXLN

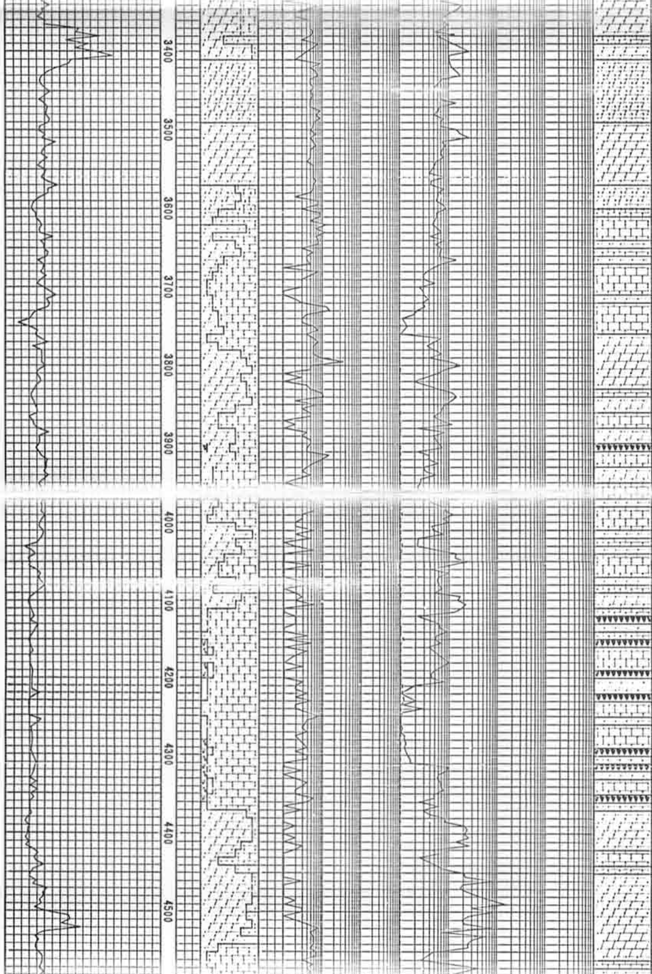
DOL WH LT GY F-XLN SUC

LS WH CRM TN MICROXLN HD

DOL WH LT GY F-XLN SUC

DOL M-DK GY F XLN V SUC

DOL M-DK GY F XLN V SUC



12-13-87
DOL M GY WH F XLN SUC

DOL LT-M GY WH F XLN SUC TR CALC
TR CHT

NB #6 HTC J-55 9 1/2"
DOL WH LT GY HD F XLN SUC SLTY
TR PYR TR OOL TR STYL

DOL WH LT GY HD F-MICROXLN SUC
TR OOL

DOL WH LT-M GY HD F XLN SDY SUC
HD OOL

12-14-87
DOL LT-M GY WH F XLN HD SUC SDY
TR PYR

DOL LT-M GY WH F XLN HD SUC SDY
TR PYR

LS WH CRM HD F XLN TR OOL TR
QTZ
DOL LT M GY F MICROXLN SUC
LS CRM WH BRN HD SUC SLTY F XLN
TR CLR QTZ GR
DOL LT-M GY HD DNS F-MICROXLN
LS WH CRM TN HD SUC F XLN TR
CLR QTZ GR
DOL WH LT-DK GY F-MICROXLN HD

LS WH CRM TN SUC F XLN M SFT

LS CLR TN V SUC F XLN

12-15-87

DOL CRM BRN HD DNS F XLN

DOL CRM BRN GY HD DNS F XLN

CHT TRNSL WH V HD

LS GY BRN XLN DNS HD SUC SLTY

LS DK GY BRN F-M XLN DNS SUC

TEST GAS DET. W/CARBIDE AT TRAP
LS DK GY BRN F-M XLN SUC DNS

LS WH CRM DNS HD F-M XLN SUC
TR CHT
DOL M-DK GY HD DNS F XLN SLTY
LS WH CRM LT GY HD F XLN SUC
TR CHT
DOL M-DK GY HD DNS F XLN SLTY
LS WH CRM HD F XLN SUC

DOL LT-DK GY HD DNS F XLN SUC
SLTY

12-16-87
LS WH CRM HD DNS F XLN SUC

LS WH CRM HD DNS F XLN SUC
CHT TRNSL HD
DOL M-DK GY HD SUC F XLN SLTY

CHT BRN TRNSL V HD

LS CRM LT GY F XLN DNS HD

LS LT-DK GY HD F XLN SUC

CHT BRN TRNSL OOL TR PYR

DOL DK GY BRN SUC DNS HD

LS LT GY BRN SUC F XLN DNS HD

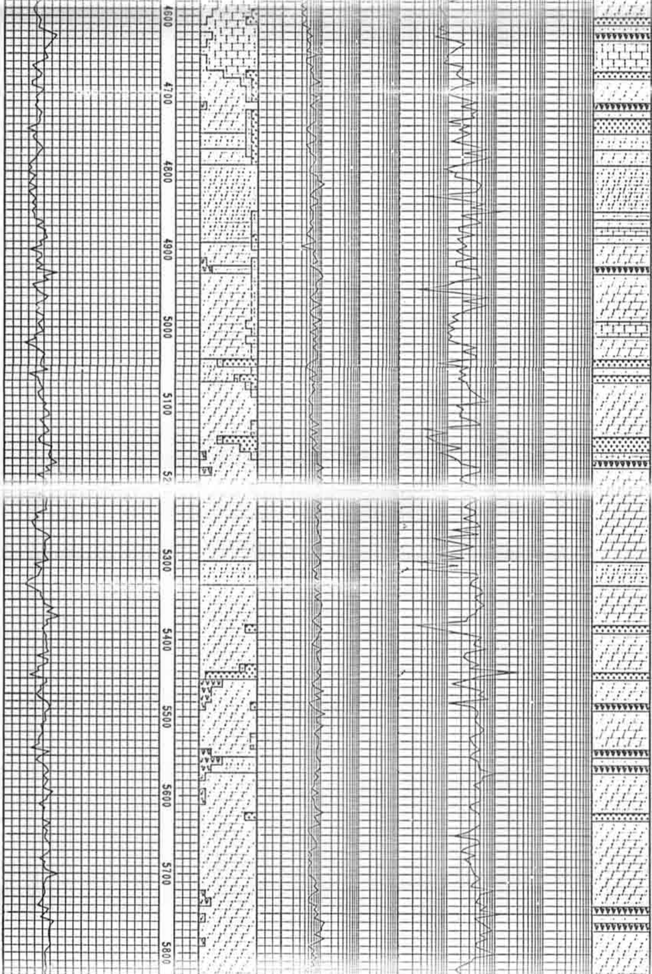
LS LT GY BRN F XLN
DOL DK GY HD SUC DNS

LS WH CRM LT GY HD DNS F-
MICROXLN
DOL WH CRM LT M GY F XLN V SUC
LS WH CRM TN HD DNS F-MICROXLN
DOL WH LT-M GY HD DNS V SUC F
XLN SLTY
LS WH CRM TN HD DNS F-MICROXLN
SUC TR PYR TR OOL
DOL LT-M GY WH HD DNS SUC F XLN
12-17-87

12-18-87
NB #7 HTC ATJ-55R 9 1/2

DOL LT-M GY HD DNS F XLN SUC
TR PYR

LS WH TN CRM HD DNS F-MICROXLN



TR PYR
DOL LT GY HD DNS F XLN SUC
SD CLR VF-F GR SBRND-ANG QTZ
SD VF-F GR SBRND-ANG QTZ
CHT TRNSL BRN V HD

LS DK GY BRN F XLN HD DNS

DOL CLR WH LT GY SUC F XLN
SD CLR F GR SBRND-ANG QTZ

DOL WH CLR SUC F XLN DNS
LS BRN TN BU F XLN HD DNS

DOL LT DK GY HD SUC F XLN
LS WH TN HD F-MICROXLN TR CHT
SD CLR VF-F GR SBANG-ANG UNCONS
DOL GY HD SUC F XLN TR OOL
LS WH TN HD F-MICROXLN TR PYR

SD CLR VF-F GR ANG UNCONS
DOL LT-M GY WH F-MICROXLN HD TR
OOL TR PYR
DOL GY HD F XLN TR OOL ABD PYR
12-19-87

DOL WH LT-M GY HD DNS F-MICROXLN
TR OOL TR PYR

DOL WH LT-M GY HD DNS F-MICROXLN
TR PYR TR OOL
LS TN WH HD F-MICROXLN

DS 1 1/4

CHT WH CLR OOL V HD TR PYR
DOL GY WH CLR HD F-MICROXLN
SD CLR VF-F GR SBRND QTZ TR PYR

DOL TN GY SUC F XLN DNS
LS LT BRN GY F XLN SUC OOL

DOL LT GY TN DNS F XLN SUC
LS LT-M GY TN DNS F XLN SUC

DOL LT-M GY HD DNS SUC F XLN
TR OOL TR PYR
SD CLR F-M GR ANG UNCONS
LS LT GY HD DNS F XLN SUC
DOL LT-M GY HD DNS F XLN SUC
TR CHT TR PYR
12-20-87

SD CLR HD F-M GR ANG UNCONS
DOL LT-M GY HD DNS F XLN SUC
TR PYR
NB #8 STC F-5 8 1/2"

DOL LT-M GY TN WH HD DNS F XLN
SUC
CHT LT GY TRNSL HD
DOL M-DK GY HD F XLN V SUC V
SLTY TR WH MIN FLUOR IN LS
TR LS

12-21-87
DOL M DK GY HD F XLN SUC V SLTY
TR PYR

DOL DK GY HD F XLN SUC V SLTY
TR PYR TR OOL

DOL DK GY HD F XLN SUC V SLTY

DOL LT DK GY HD F XLN SUC SLTY

SD CLR HD M GR ANG UNCONS
DOL MED GY HD F XLN SUC

DOL DK GY HD F XLN SUC SDY
TOP OF GUNTER SAND 5430'
SD CLR FROS F-M GR SBANG CONSOL
CHT WH CLR TRNSL ANG V HD
TOP OF LOWER KNOX 5450'
DOL LT-DK GY WH SUC XLN DNS HD
CKF

DOL WH GY F XLN SUC DNS HD
12-22-87

CHT WH LT GY OOL ANG V HD

DOL DK GY HD F XLN V SUC

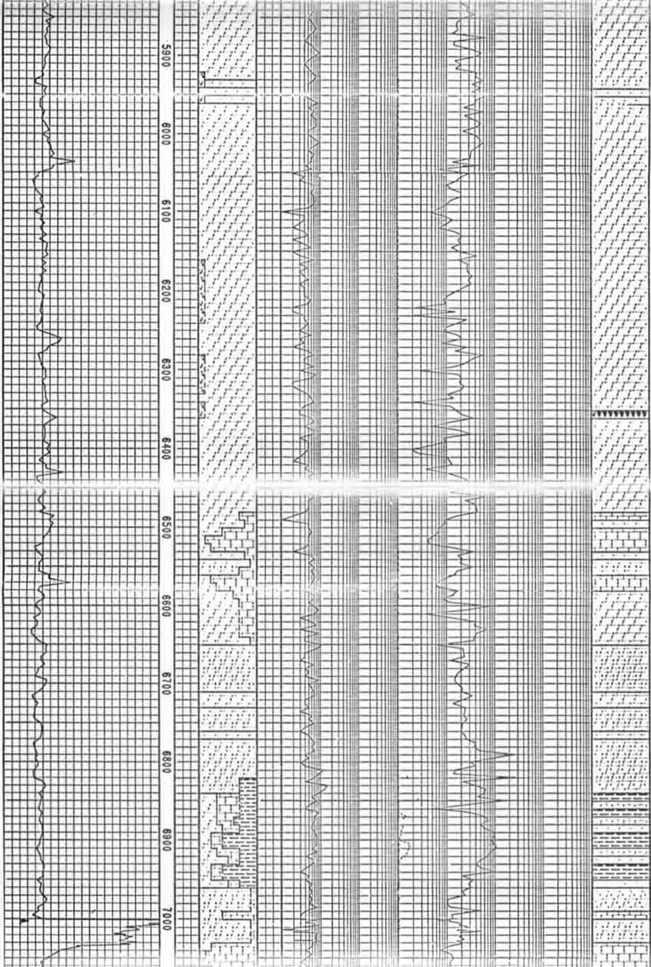
DOL DK GY HD F XLN V SUC
CHT WH LT GY HD
D.S. 1 1/4 DEG
DOL DK GY HD F XLN V SUC SDY
TR CHT

DOL DK GY HD F XLN SUC SDY
TR CHT

DOL DK-M GY F XLN SUC HD DNS
SDY TR CHT

CHT WH SMOKY ANG V HD
12-23-87
DOL M GY HD F XLN SUC SDY TR CHT

DOL M GY HD F XLN SUC SDY TR CHT



DOL WH LT GY HD F XLN SUC
SDY TR CHT

DOL WH LT GY F XLN SUC SDY
TR PYR

DOL WH LT GY HD F XLN SUC
SDY TR PYR
DOL WH LT GY HD F XLN SUC

DOL WH LT GY HD F XLN SUC

DOL WH GY F XLN SUC SDY

12-24-87

NB #9 STC F-5 8 1/2" 12-25-87
DOL WH LT GY HD F XLN SUC

DOL WH LT-M GY HD F XLN

DOL WH M GY F XLN HD SUC SDY

DOL DK GY WH F-M XLN ARG HD DNS

12-26-87

NB #10 HTC J-77 8 1/2"

DOL WH LT GY HD F-CRS XLN
SUC SDY

DOL WH LT GY HD CRS XLN
SUC SDY

12-27-87

DOL DK GY HD F XLN DNS

DOL WH LT GY F-CRS XLN
SUC SDY

DOL WH M GY HD F XLN SUC SDY

DOL M GY WH HD F-CRS XLN SUC ARG

LS LT-M GY HD MICROXLN ARG
DOL DK GY HD F XLN SUC ARG

DOL M-DK GY WH CRS XLN SUC OOL
LS DK GY F XLN HD

CKF

12-28-87
DOL DK GY CRS XLN SUC HD
LS WH LT GY CRS XLN HD DNS

DOL M-DK GY F-CRS XLN HD DNS SDY

DOL DK GY F XLN HD SUC OOL

DOL LT-DK GY HD F XLN OOL SDY
SUC

DOL WH LT GY HD F-CRS XLN SUC
TR PYR

DOL WH LT-M GY HD F XLN SUC OOL

DOL WH LT-M GY HD F XLN SUC
TR PYR

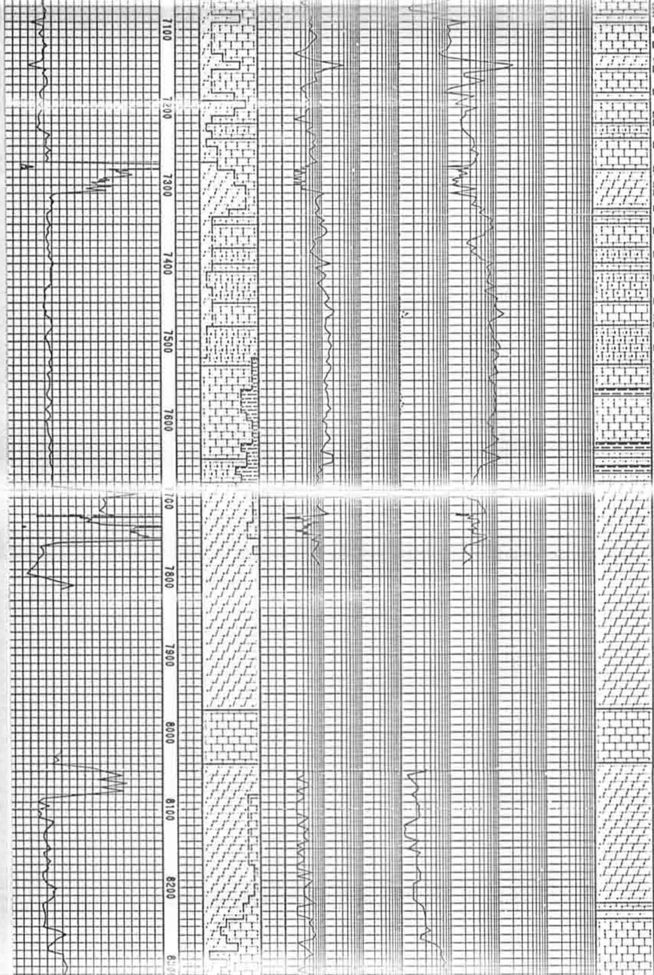
DOL WH LT-M GY HD F XLN
TOP OF DERBY DOE RUN 6833'
SWC 1, 2, 3
SH DK GY BLK HD BLKY TR PYR
SWC 4, 5, 6

LS WH CRM DK GY F XLN HD
DOL LT-M GY HD F XLN
12-29-87
SWC 7, 8
SH DK GY BLK FRM BLKY CALC
LS WH CRM HD F XLN

DOL WH LT GY HD F-M XLN SUC
TR OOL TR PYR
SWC 9, 10, 11

LS WH LT GY F-M XLN TR FOSS
CO DS 2 1/4 12-30-87
NB#11 EC C-23 8.75" CORE#1

DOL WH LT GY F XLN HD OOL
LS M GY HD F XLN 12-31-87
RR#9 STC F5



LS WH LT GY CRYXLN HD DNS
SWC 12

DOL WH LT GY HD F XLN SUC

LS WH LT GY HD DNS MICROXLN

1-1-88
DOL WH LT GY HD F-CRS XLN V SUC

LS WH LT GY BRN HD DNS MICROXLN
TR PYR

LS WH LT GY HD DNS MICROXLN
DOL WH LT-M GY HD MICROXLN SUC
TR PYR TR QTZ XLS

LS WH LT-DK GY HD DNS SLTY F-
MICROXLN TR QTZ XLS TR OOL

RR#11 EC C-23 8.75" CORE#2
1-2-88
DOL WH LT GY HD F-CRS XLN CALC
NB #12 HTC J55R 8 1/2"

DOL M GY HD F-MICROXLN V CALC

LS M GY F-MICROXLN OOL ARG
1-3-88

LS M GY HD F-MICROXLN OOL ARG

LS WH DK GY F-MICROXLN ARG OOL

LS WH DK GY F-MICROXLN ARG SLTY
TR PYR
SWC 13
LS WH LT-DK GY HD F-MICROXLN
SUC ARG TR STYL TR PYR TR
FOSS
LS WH LT-DK GY HD F-MICROXLN
SUC ARG TR PYR TR OOL
TOP OF DAVIS SHALE 7512'
LS WH LT-DK GY HD F-MICROXLN
SWC 14, 15, 16

LS WH DK GY F-MICROXLN V ARG
SH DK GY BLK FRM V CALC
SWC 17, 18
LS WH DK GY F-MICROXLN V ARG
1-4-88

LS M GY HD F-MICROXLN V ARG
TOP OF BONNETERRE 7680'
SWC 19

LS M-DK GY F GR SUC ARG OOL
TR PYR TR FOSS FRAG
[illegible]
DOL WH DK GY MICRO-F XLN ARG
TR VUGS W/CALC
RR#11 EC C-23 CORE#4 1-6-88
DOL WH CRM BRN MICRO-F XLN SUC
TR OOL PYR VUGS W/CALC
RR#12 HTC J55R
1-7-88

DOL WH CLR CRM HD VF-M XLN PYR
RR#12 HTC J55R 1-8/10-88
NB#13 HTC ATJ44 LOST CIRC.
DRILLING W/NO RETURNS

SWC 21, 22, 23

SAMPLES FROM 7780' TO 8041'.
SWC 24, 25, 26

RR BIT #13 HTC ATJ-44
DRILL WITH AIR/WATER
1-15-88 SWC 27, 28

NO RETURNS
SWC 28, 30

1-18/24-88 SET 7 5/8 CSG 8041

NB #14 HTC J3

NB #15 HTC J-44
DOL WH M GY HD DNS F XLN

DOL WH M GY HD DNS F XLN

1-25-88
DOL WH M GY F XLN SUC TR GLAUC

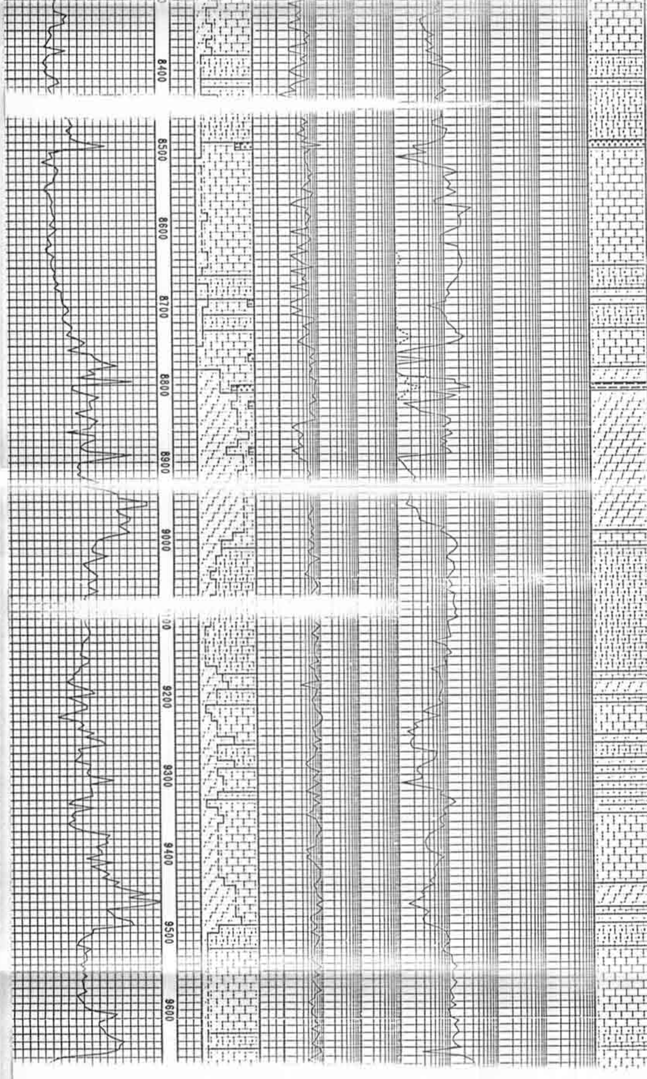
LS WH HD DNS MICROXLN
DOL CRM WH LT-M GY HD DNS F
XLN SUC TR PYR TR GLAUC

DOL WH CRM LT GY DNS F XLN SUC
TR GLAUC TR INTR GN BLK
LS WH HD DNS MICROXLN

NB #16 HTC J-44

1-26-88

LS WH LT-M GY HD DNS F XLN SUC
OOL TR PYR



DOL M-DK GY F XLN HD DNS

LS TN BU DNS SUC F XLN
HD OOL
DOL WH LT GY F XLN HD SUC

DOL DK GY WH SUC DNS
LS DK GY BRN WH OOL SUC DNS

DOL WH TN LT GY F XLN HD DNS SUC
LS LT-DK GY HD DNS SUC F XLN
TR PYR TR GLAUC
DOL M GY HD DNS F XLN SUC
LS WH CRM LT-DK GY HD DNS F XLN
OOL TR PYR TR GLAUC
NB#17 HTC J-55R 1-27-88
SD CLR C GR SUBRND UNCONS QTZ
SH DK GR WAXY SFT
DOL LT-M GY HD DNS F XLN
LS GY WH F XLN HD DNS SUC

DOL LT-M GY HD DNS F XLN
LS LT GY WH CRM HD DNS SUC F
XLN TR PYR TR GLAUC
1-28-88
DOL WH LT-M GY HD DNS F XLN SUC

DOL M-DK GY HD DNS F XLN SUC
LS WH LT-M GY CRM HD DNS SUC
F XLN TR PYR TR GLAUC

LS DK GY CLR F XLN SUC ARG
SLTY DNS HD TR PYR

DOL DK GY CRS-F XLN DNS V HD
LS DK GY WH F XLN OOL HD DNS

DOL DK GY HD DNS F-M XLN SUC
LS WH CRM LT-M GY HD DNS F-
M XLN SUC TR PYR TR GLAUC

1-29-88 NB#18 HTC ATJ-55R

1-30-88

SD CLR LT GY VF GR DOL CMT
SH RED BRICK CLAY V SFT

1-31-88
DOL WH LT GY F-CRS XLN SUC V HD
LS WH LT GY F XLN SUC DNS

DOL WH CLR HD F XLN PYR GLAUC
LS WH CLR HD DNS F XLN
NB#20 HTC ATJ-77 2-1-88

DOL WH CLR HD F XLN PYR GLAUC

DOL WH CLR HD F XLN PYR GLAUC

DOL M GY CLR F XLN SUC QTZ
VF-F GR W CONSOL V HD
2-2-88
LS DK GY CLR F XLN SUC DNS OOL

LS DK GY WH F XLN SUC OOL

LS DK GY WH F XLN SUC OOL

LS WH LT GY F XLN HD OOLTIC
DOL M GY F XLN HD DNS

2-3-88

NB#21 HTC ATJ-77

LS LT GY CLR F XLN SUC M HD
DOL M-DK GY CLR SUC

2-4-88

LS WH LT GY F XLN HD OOL
DOL DK GY F XLN SUC HD

LS LT GY F XLN HD ABD GLAUC
DOL LT-M GY F XLN HD TR PYR

DOL LT GY F XLN HD DNS
LS WH LT GY F XLN HD DNS

LS LT GY CLR SUC F XLN HD
2-5-88

DOL LT GY F XLN HD DNS
LS LT-M GY F XLN HD DNS

DOL LT GY F XLN HD DNS
LS LT-M GY F XLN HD DNS

DOL DK GY CLR F XLN DNS V HD
LS DK GY CLR DNS HD
NB#22 HTC ATJ-77 2-7-88
REAM FROM 8882' TO BOTTOM

DOL LT-M GY CLR F XLN DNS HD
LS DK GY F XLN DNS HD ARG OOL
2-8-88

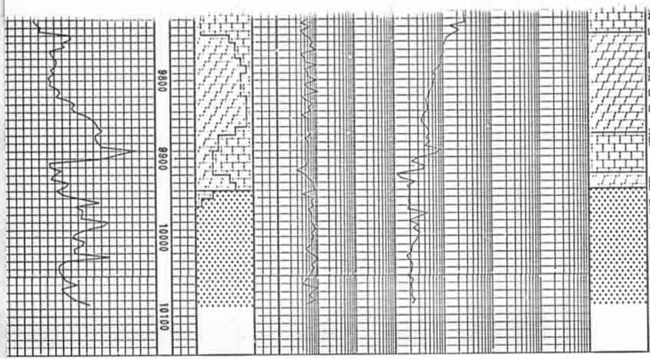
LS DK GY F XLN HD DNS OOL

LS WH M-DK GY F XLN SUC HD DNS
ARG TR PYR

DOL DK GY HD DNS V ARG F XLN

LS WH M GY F XLN HD DNS
2-9-88

NB #23 HTC ATJ-77
D.S. 2 3/4



LS WH LT GY F XLN HD DNSE
2-10-88
LS LT GY F XLN HD DNSE

DOL LT-DK GY HD DNS F XLN SUC
V ARG
LS WH LT GY HD F XLN SUC
DOL LT-DK GY HD DNS F-M XLN SUC
V ARG
LS WH LT GY HD F-MICROXLN

DOL LT DK GY HD F XLN SUC ARG

2-11-88
DOL DK GY F XLN HD V ARG
TOP OF LAMOTTE SAND 9931'

DOL M-DK GY HD DNS F XLN SUC ARG
LS WH LT-M GY F XLN SUC HD DNS
TR PYR
LS WH LT-M GY F XLN TR DOL PYR
SS WH CLR LT GY VF GR SBANG
M SRT CALC-SILIC CMT
SS WH CLR VF GR SBANG M SRT
CALC-SILIC CMT

2-13-88
SS WH CLR VF GR SBANG M SRT
CALC-SILIC CMT
SS WH LT-M GY VF GR SBANG W SRT
TGT FRI CALC-SILIC CMT TR
PYR GLAUC

T.D. WELL AT 10089' ON 2/13/88
RUN E-LOGS DS 3 3/4
UNIT RELEASED 2/13/88 P&A