

GEOLOGICAL REPORT

DRILLING TIME API # 15-179-21.165-00-00

SAMPLE LOG

COMPANY **RUSSELL OIL, INC.**

LEASE **FERGUSON B 1-19 NWSW**

LOCATION **1960' FSL / 500' FWL**

SECTION **19** TOWNSHIP **10S** RANGE **30W**

COUNTY **SHERIDAN** STATE **KANSAS**

POOL **W.C.**

ELEVATIONS

KB **2919**

DF **—**

GL **2914**

MEASUREMENTS FROM
2919 KB

CASING

8 5/8" SET @ 219' W 175 SAS

5 1/2" SET @ 4549' W 150 SAS

CONTRACTOR **SHIELDS DRUG CO.**

COMMENCED **10-16-06**

COMPLETED **10-26-06**

RTD **4560** LTD **4562**

MUD **MUD-Co. INC**

SAMPLES SAVED FROM **3600** TO **4560 RTD**

DRILLING TIME FROM **3600** TO **4560 RTD**

SUPERVISION FROM **3800** TO **4560 RTD**

GEOLOGIST **TODD E. MORGENSTERN**

ELECTRICAL SURVEYS

LOG-TECH
(RAG, MICRO)

DRILL STEM TESTS

TRILOBITE TESTING
(4 TESTS)

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
ANH		2480'	+ 439'				
BASE ANH		2510'	+ 409'				
HEEBNER	3937'	3938'	- 1019'				
TORONTO	3959'	3961'	- 1042'				
LANSING	3974'	3976'	- 1057'				
BASE KC	4251'	4252'	- 1333'				
MARM.	4277'	4280'	- 1361'				
PAWNEE	4368'	4370'	- 1451'				
FT. SCOTT	4442'	4445'	- 1526'				
CHEROKEE	4476'	4473'	- 1554'				
MISSISSIPPI	4541'	4546'	- 1627'				
RTD	4560'	4560'	- 1641'				
LTD	4562'	4562'	- 1643'				

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 19 2007

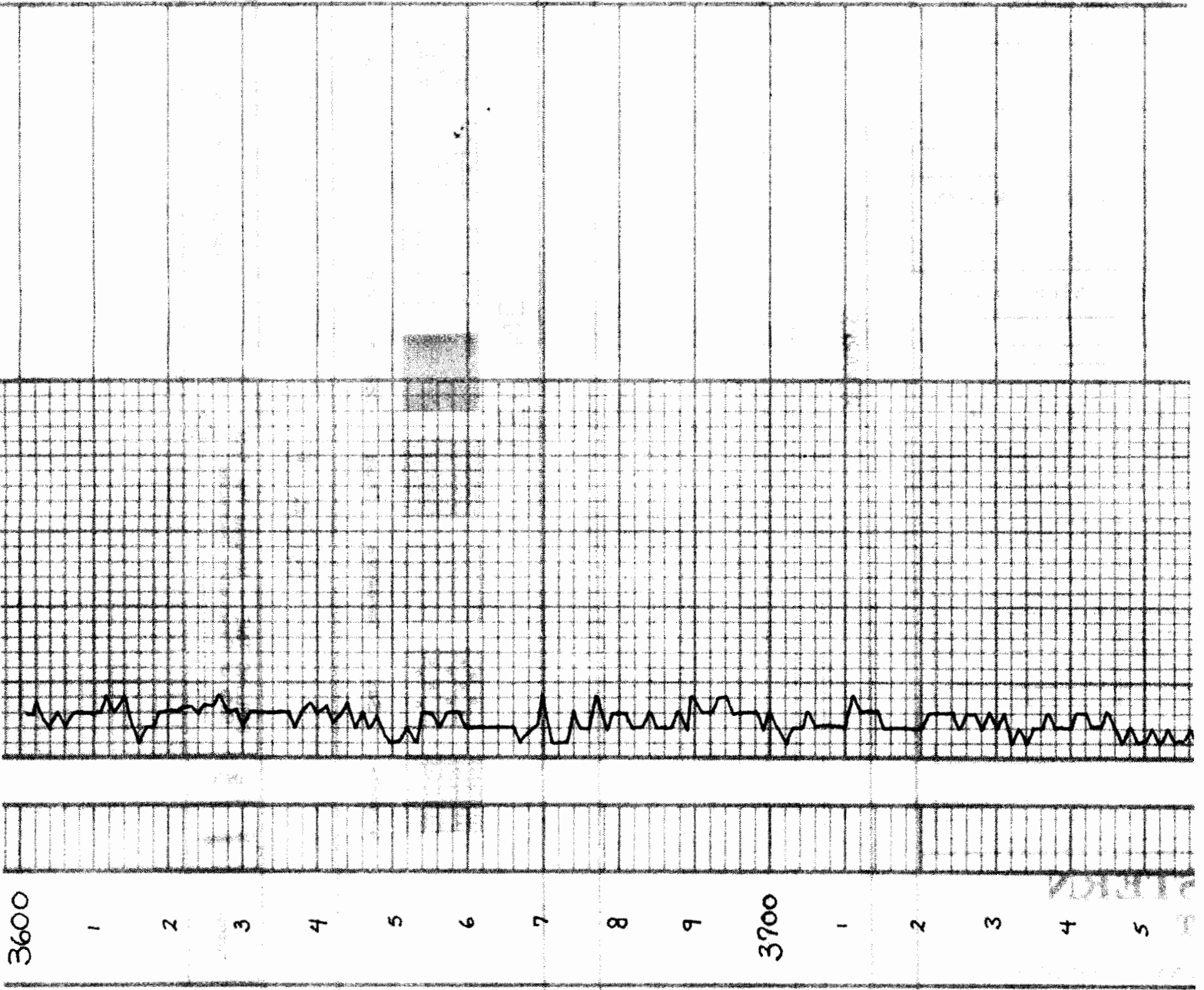
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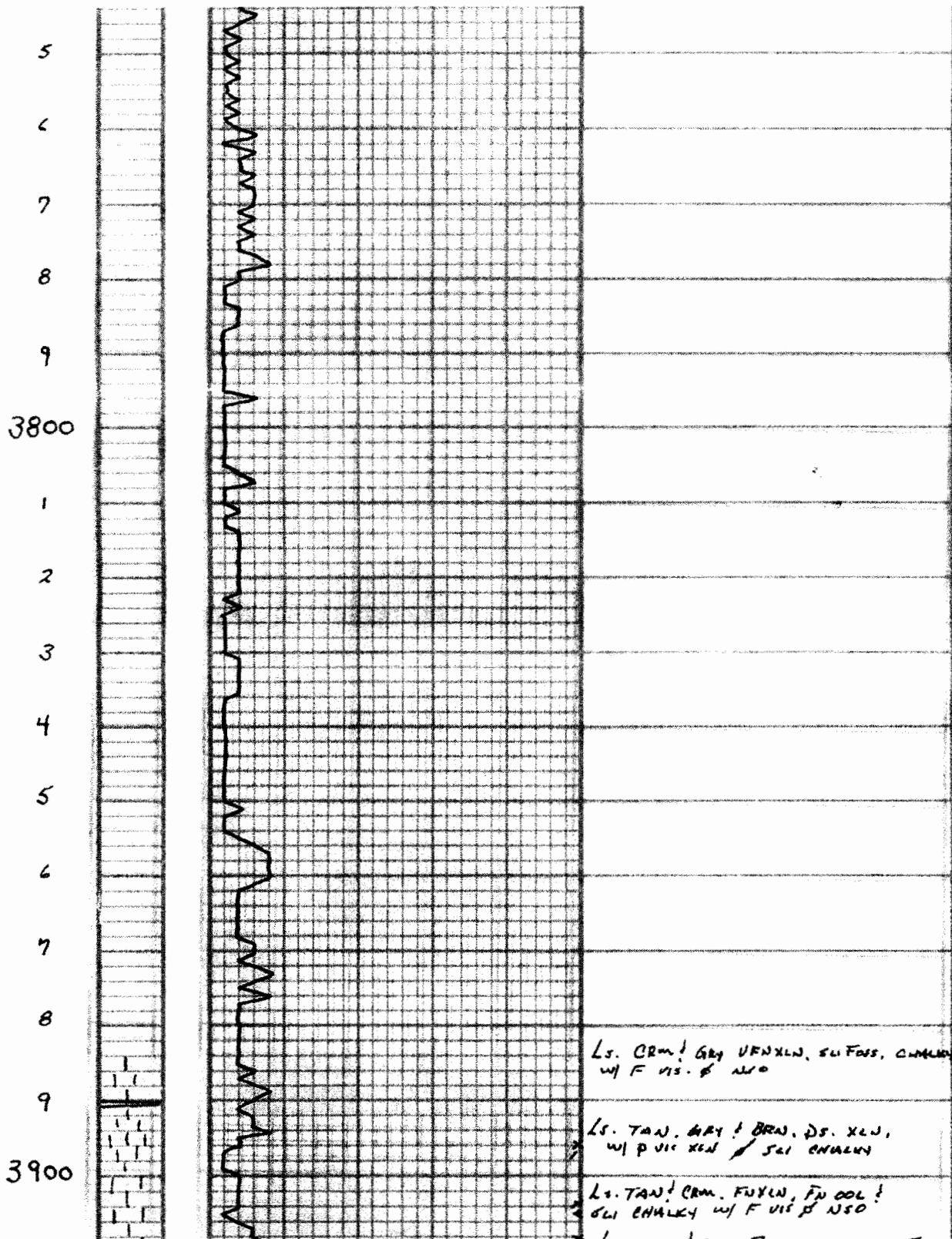
CONSERVATION DIVISION
WICHITA, KS

TODD E. MORGENSTERN
PETROLEUM GEOLOGIST

SUNFLOWER BANK BUILDING • P.O. BOX 251 • ELLINWOOD, KANSAS 67526

REMARKS

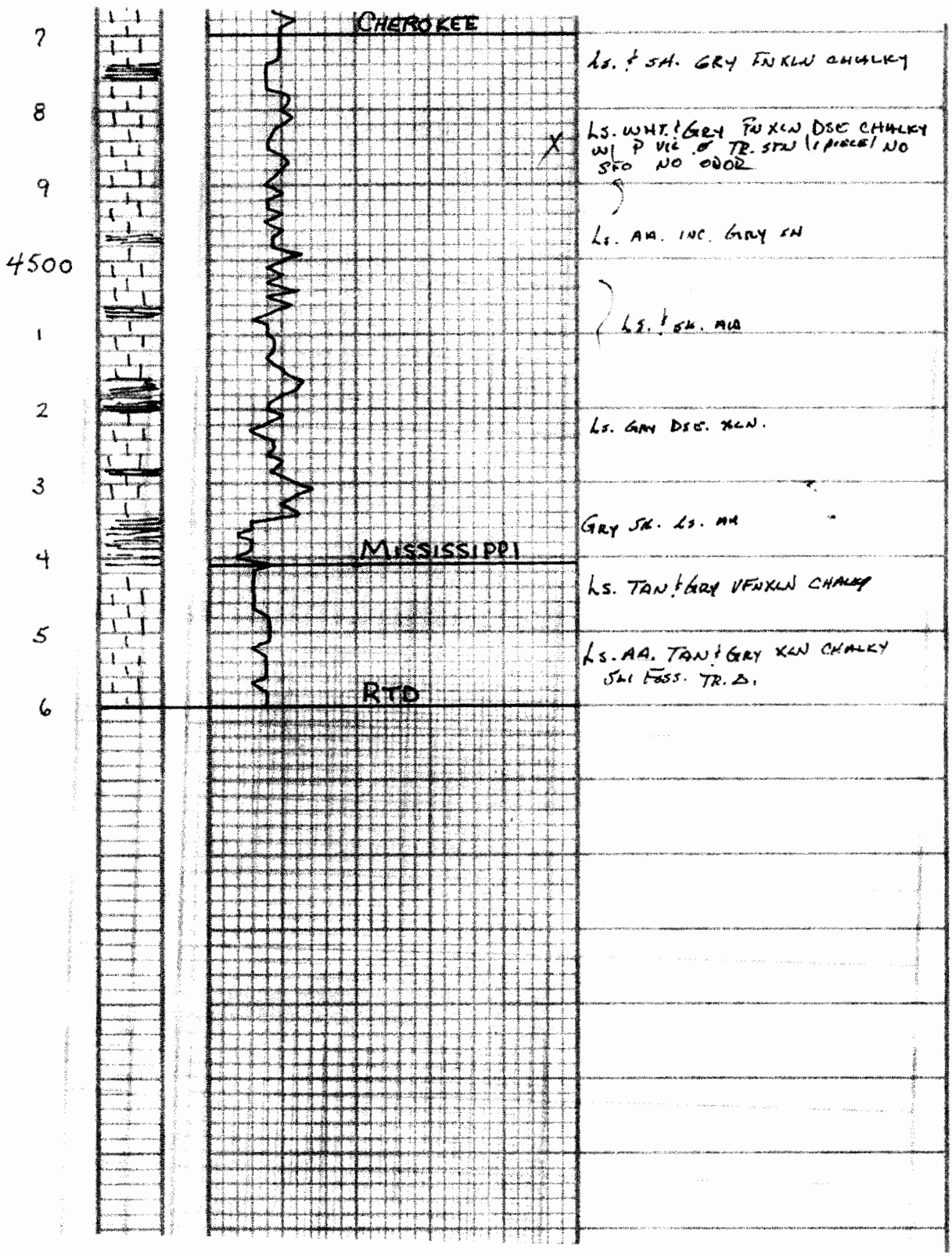


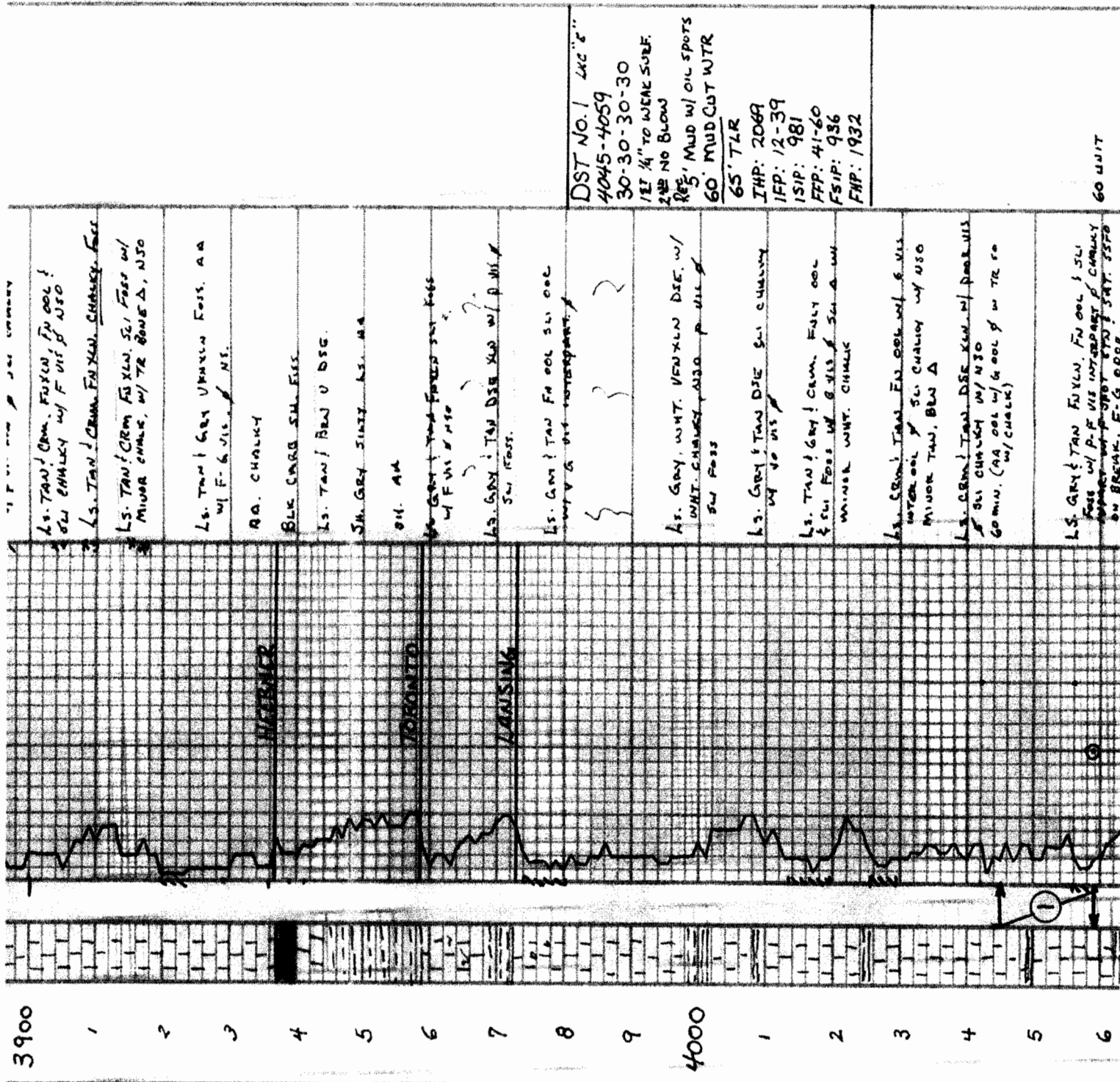


Ls. CRM. & GRAY VERMILION, SUI FOSS, CHALKY
W/ F VIS. & ALSO

Ls. TAN. GRAY & BROWN, DS. XEN,
W/ P VIS. XEN & SUI CHALKY

Ls. TAN & CRM. FUSIL, FA OOL,
SUI CHALKY W/ F VIS. & ALSO





604417

60 UNIT

Foss w/ p. f. vis INTERFOSSED CHALKY
w/ p. f. 100% STN. SAT. 35%
ON BREAK, F-G 0000

LS. GRAY-BRN DSE. VERY SU. P. d. NIS

LS. WHT. LT. GRAY FUXEN CHALKY
w/ p. vis. d. NIS

LS. WHT GRAY DSE CHALKY SU
Foss. w/ p. vis. d. NIS

LS. GRAY WHT. DSE. FUXEN CHALKY
A.G.

LS. AA.

ABUNT. BLK FISS CARB. SH.

LS. TAN. SU. CHALKY Foss.

LS. TAN & GRAY DSE. Foss. d. i. b. NIS

LS. TAN & GRAY. UPOXIN. SU. CHALKY
w/ p. vis INTERFOSSED & RARE 90% STN
VSS 20 BRC

?

LS. WHT. LUC. GRAY SH. LS. TAN
p. f. CHALKY w/ NIS

?

LS. GRAY & WHT FUXEN SU. Foss w/
STONE & TR. 30% STN. VSS ON
DSE. w/ JORDAN CHALK, NO 0000
NIS GAS KICK

LS. GRAY WHT. DSE ALN SU. Foss
d. i. b. w/ TR. STN. W.A. - NIS 0000
UNSAT.

BLK GARB SH. (Fiss)

GRAY SH. DSE GRAY LS. NIS

?

LS. GRAY. LT. GRAY FUXEN. COAL
Foss. SU. CHALKY w/ p. d. NIS

7

DST No. 2 H.V.
4108-4196

15-30-15-30

1ST SURF DIED IN 14min
2ND No Blow

REC. 10' MUD

IHP: 2154

IFP: 18-24

ISIP: 148

FFP: 28-28

FSIP: 112

FHP: 2048

6

7

8

9

4100

1

2

3

4

5

6

7

8

9

4200

1

2

2

370' TLR

HP: 2259
FP: 20-80
SIP: 1135
FFP: 120-168
FSIP: 1063
FAP: 2163

LS. TAN QIRUN GRAY DEC 2001 w/00
ANPT. d, 34.6RY DRK GRAY

L3. TAN! CRW. MOSTLY DSE. SL. FISH
WYD VIS OF ABOUT GRAY! BLK SH.

Dr. J. M. M. A.

43. CRM! TAN, FAXEN, SUP. 21 FEB
1902 w/ F. & HIS INTEREST IN PINKNEY
4000 SAT, 5550 & LY. 0002.

L.S. GARY, L.T. GARY, SHALEY, GARY!
DICK GARY,

Mostly grey & blue SH, sun Rd
Ls. and Di. XN, Neo

Gay 54. 6 L.S. AD.

AD. As. i GRAY SM.

LS. GRAY? WHT. DSC. VENTXN
SLI CHALKY W/UP VIS P
US STAINS OF OIL, NO ODOR

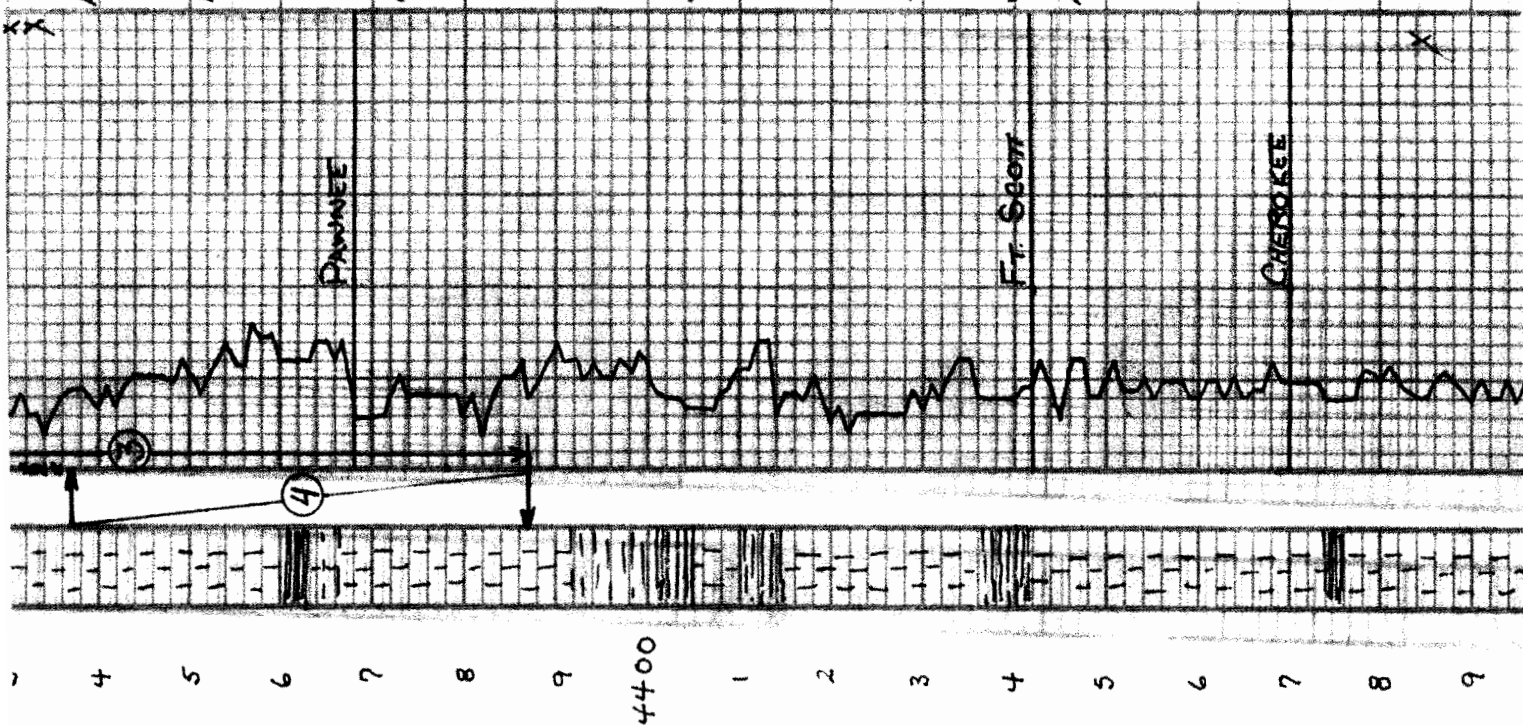
Buck. carb. sh. fiss. h. i. s. a. a.

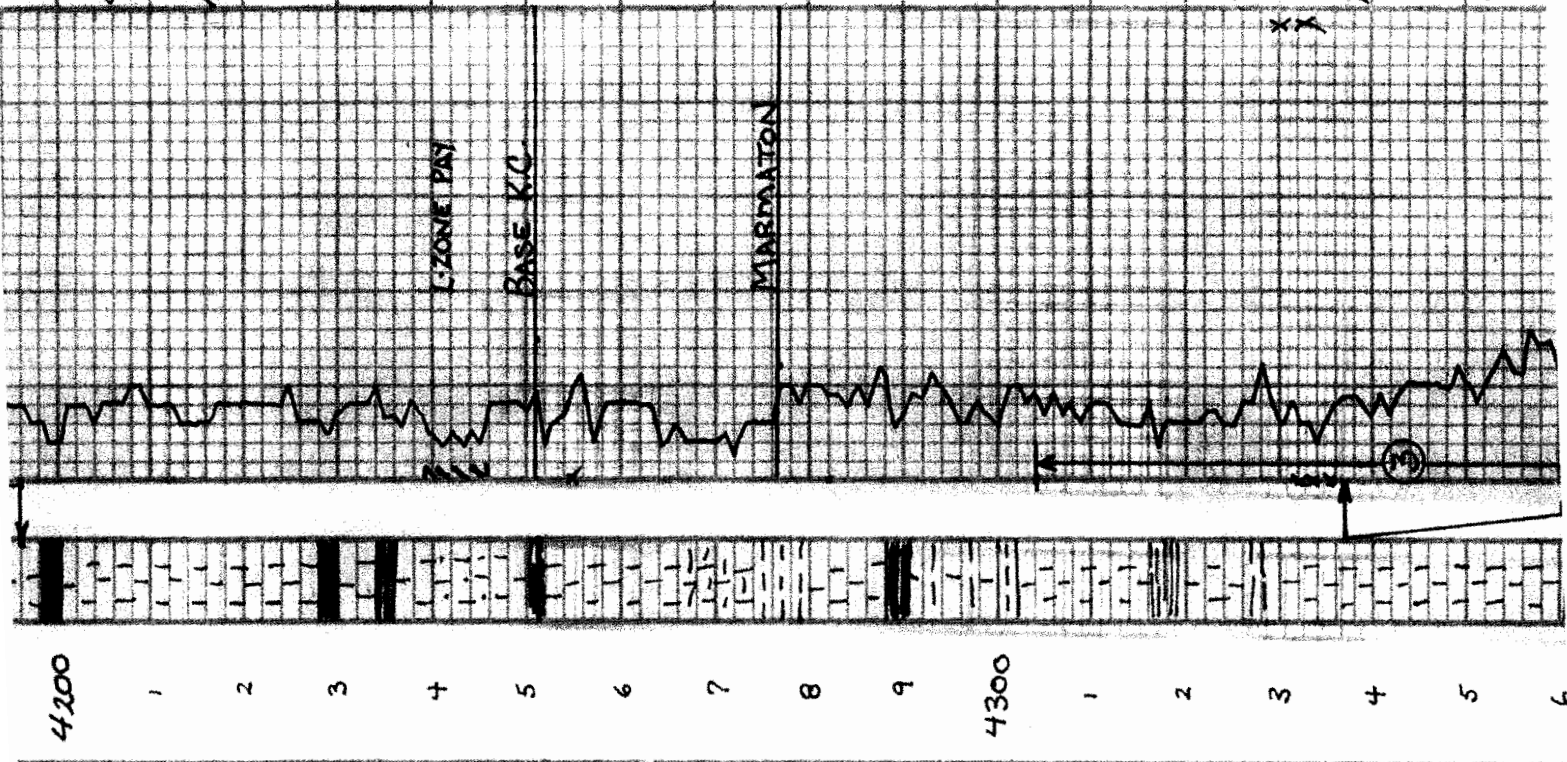
h.s. VERY CLEAN, GREY & LT. GRAY
VENTURED SLT Foss. ool. ip w/
UP VIS OF, CHALKY IP N2O
NO OOR

Ad. Bk SH. L3. Ad. Ad.

ds. 65A. GRY TWXLU CH4LKY

LS. WHT! GREN TWXW DSE CHMTRY
w/ p vic. of TR. STW / piece / NO
DSE NO ONDR





BLK GRG SH (Fiss)	GRAY SH. DSE GRAY LS. ALSO	LS. GRAY, LT. GRAY FAN LN, POLY FESS, SLT CHALKY W/ P. AND ALSO	LS. GRAY DSE. XLN CHALKY VERY SH. NO SHOWS	SH. GRAY SILTY	DST NO. 3 MARM PAW 4304-4387 PACKER FAILURE
2	2	2	3	3	
3	3	3	3	3	
4	3	3	3	3	
5	3	3	3	3	
6					
7					
8					
9					
1					DST NO. 4 PAW 4337-4387 1ST 1/4 TO BOB IN 12 MIN SHUT-IN: WEAK SURE. 2ND BOB IN 9 MIN. SHUT-IN: WORK BUILDING TO 2 1/2 IN.
2					Rec. 992' GAS IN PIPE 60' GOCM 124' MCGO 62' GOCM 124' MCGO
3					370' TLR
4					IHP: 2259 IFP: 20-80 ISIP: 1135 FFP: 120-168 FSIP: 1063 FHP: 2163
5					
6					

(?)
DOOR SEALING
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