

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

7/16/10

Operator: License # 32211
Name: O'Brien Energy Resources Corp.
Address: 18 Congress Street, Suite 207
City/State/Zip: Portsmouth, NH 03801
Purchaser: National Cooperation Refinery Association, DCP Midstream
Operator Contact Person: Joseph Forma
Phone: (603) 427-2099
Contractor: Name: Duke Drilling Co. Inc.
License: 5929
Wellsite Geologist: Peter Debenham

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to Enhr./SWD

Plug Back Plug Back Total Depth

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Enhr.?) Docket No. _____

| 4/08/2008 | 4/15/2008 | 6/15/2008 |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 119-21193-0000

County: Meade

SW SE SE/4 Sec. 34 Twp. 32 S. R. 29 East West

330' feet from (S) / N (circle one) Line of Section

1,110' feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Borchers Well #: 1-34

Field Name: Unnamed

Producing Formation: St. Louis and Morrow

Elevation: Ground: 2642 Kelly Bushing: 2654

Total Depth: 6,200' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 1561 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AHJNH9-3-08
(Data must be collected from the Reserve Pit)

Chloride content 2800 ppm Fluid volume 3 bbls

Dewatering method used Haul free water, Natural Evap., cover w/36" min.

Location of fluid disposal if hauled offsite: _____

Operator Name: Drill. Co. Fluid Service

Lease Name: Feldmen License No.: 9491

Quarter _____ Sec. 18 Twp. 34 S. R. 28 East West

County: Meade Docket No.: C-23094

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover, or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
Title: PRESIDENT Date: 7/16/08

Subscribed and sworn to before me this 16 day of July

Notary Public: [Signature]
PATRICIA A. O'BRIEN
Notary Public - New Hampshire

Date Commission Expires: My Commission Expires May 18, 2010

KCC Office Use ONLY

Letter of Confidentiality Received

Wireline Log Received

Geologist Report Received

UIC Distribution

If Denied, Yes Date: _____

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JUL 22 2008

Operator Name: O'Brien Energy Resources Corp. Lease Name: Borchers Well #: 1-34
 Sec. 34 Twp. 32 S. R. 29 East West County: Meade

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------|-----|-------|---------|-------|--------|---------|-------|-------|----------|-------|--------|----------|-------|-------|--------|-------|-------|---------|-------|-------|----------------|-------|-------|-----------|-------|--------|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction, Compensated Neutron, Litho. Density, Microlog | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>4428'</td> <td>-1774'</td> </tr> <tr> <td>Lansing</td> <td>4566'</td> <td>-1912</td> </tr> <tr> <td>Marmaton</td> <td>5194'</td> <td>-2540'</td> </tr> <tr> <td>Cherokee</td> <td>5371'</td> <td>-2717</td> </tr> <tr> <td>Morrow</td> <td>5684'</td> <td>-3030</td> </tr> <tr> <td>Chester</td> <td>5712'</td> <td>-3058</td> </tr> <tr> <td>Ste. Genevieve</td> <td>6010'</td> <td>-3356</td> </tr> <tr> <td>St. Louis</td> <td>6098'</td> <td>-3444'</td> </tr> </table> | Name | Top | Datum | Heebner | 4428' | -1774' | Lansing | 4566' | -1912 | Marmaton | 5194' | -2540' | Cherokee | 5371' | -2717 | Morrow | 5684' | -3030 | Chester | 5712' | -3058 | Ste. Genevieve | 6010' | -3356 | St. Louis | 6098' | -3444' |
| Name | Top | Datum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heebner | 4428' | -1774' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lansing | 4566' | -1912 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marmaton | 5194' | -2540' | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherokee | 5371' | -2717 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Morrow | 5684' | -3030 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chester | 5712' | -3058 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ste. Genevieve | 6010' | -3356 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| St. Louis | 6098' | -3444' | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| JUL 16 2008 CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
|--|-------------------|---------------------------|------------------|---------------|----------------|--------------|----------------------------|
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./ Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 12 1/4 | KC 8 5/8, J55 | 24/ft | 1561' | AAZ | 405 | a-con, 3%cc |
| Production | 7 7/8 | 5 1/2 | 15/ft | 6200' | AZZ | 120 | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | 6140-6142 | AAZ | 50 | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 2 | 6098'-6108 | | |
| 2 | 5684-5690 | | |
| | Cast Iron bridge plug set at 5920' | | |

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| TUBING RECORD | | Size | Set At | Packer At | Liner Run |
|--|-----------|---------|---|---------------|---|
| | | 2 3/8 | 5644' | 5648' | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumerd Production, SWD or Enhr. | | | Producing Method | | |
| 6/15/2008 | | | <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
| | 8 | 2 | 0 | 1-4 | 40 |

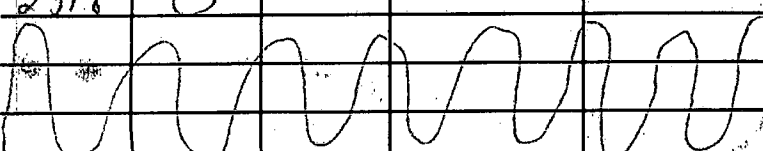
Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____

| | | |
|--|-------------------------|--------------------------------------|
| Customer <i>O'Brien Energy Res. Corp.</i> | Lease No. | Date <i>4-8-08</i> |
| Lease <i>Borchers</i> | Well # <i>1-30</i> | |
| Field Order # <i>20928</i> | Station <i>1975</i> | Casing <i>8 5/8</i> |
| | | Depth <i>1591'</i> |
| Type Job <i>Surface</i> | Formation <i>CNW</i> | County <i>Meade</i> |
| | | State <i>KS</i> |
| | | Legal Description <i>34-32-29</i> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | |
|-----------------------------|--------------|------------------|----|---------------------------------|------------------------------|-----------------------------|------------------|
| Casing Size <i>8 5/8</i> | Tubing Size | Shots/Ft | | Acid <i>405sx A-Con</i> | 3% CC RATE | PRESS | ISIP |
| Depth <i>1563'</i> | Depth | From | To | Pre Pad <i>(2.43 gal/sk)</i> | Max <i>(14.41 gal/sk)</i> | | 5 Min. |
| Volume <i>7.1</i> | Volume | From | To | Pad <i>200sx Prem</i> | Min <i>comm</i> | <i>2% CC 1/4" well/lake</i> | 10 Min. |
| Max Press <i>3000</i> | Max Press | From | To | Frac <i>(1.33 gal/sk)</i> | Avg <i>(6.33 gal/sk)</i> | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure |
| Plug Depth <i>1522</i> | Packer Depth | From | To | Flush <i>Water 98.7 bbl</i> | Gas Volume | | Total Load |

| | | |
|---|---|-----------------------------------|
| Customer Representative <i>Roger Pearson</i> | Station Manager <i>Jerry Bennett</i> | Treater <i>Garry Humphreys</i> |
| Service Units <i>19988 19927 19943 19905 19883 19904 19909</i> | | |
| Driver Names <i>Garry Marty Petre Jose Ochoa James McCann</i> | | |

| Time | Casing Pressure | Tubing Pressure | CONFIDENTIAL Bbls. Pumped | Rate | Service Log |
|--|-----------------|-----------------|------------------------------|------|--------------------------------------|
| 1900 | | | JUL 16 2008 | | Arrive on loc - Safety Meet - Rig up |
| 2000 | | | KCC | | Start Running Casing 8 5/8" |
| 2120 | | | | | Casing on Bottom |
| 2130 | | | | | Circulate Well |
| 2210 | | | | | Safety Meeting |
| 2215 | 2500 | | | | Test Lines |
| 2217 | 300 | | 175 bbl | 7.5 | Pump Lead Slurry @ 12.2# |
| 2242 | 200 | | 47 bbl | 5.5 | Pump Tail Slurry @ 15# |
| 2258 | | | | | Drop Plug - 8 5/8" Top Rubber |
| 2300 | 600 | | 97 97 | 7 | Pump Displacement |
| 2317 | 1200 | | 97 97 | 2 | Land Plug |
| 2318 | 0 | | | | Release PSI - No Flowback |
|  | | | | | |
| 2340 | | | | | Call in for 200sx Near Top Out |
| 2400 | | | | | Run 1" Pipe down to 80' |
| 0315 | 300 | | 50 | 2 | Pump 200sx Prem/comm @ 15.5#-16# |
| 0400 | | | | | Shut down Pull 1" Pipe |
| 0415 | | | | | Rig Down Equip. |
| 0500 | | | | | Crew Leave Location |

| | | |
|---|-----------------------|-------------------------------|
| Customer Orion Energy Resources Corp | Lease No. Borchers | Date 4/16/08 |
| Field Order # 20518 | Station Liberal | Well # 1-34 |
| Type/Job 5 1/2 Longstring (NW) | Casing 5 1/2 | Depth 6193' |
| | County Meade | State KS |
| | Formation | Legal Description 34-32-29 |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | |
|-------------------------|--------------|------------------|----|-------------------------------------|--------------|------------------|-----------------------|
| Casing/Size 5 1/2 | Tubing Size | Shots/Ft | | Acid 1205KW AAZ @ 15# | RATE 1.18 | PRESS 1140 | ISIP 6.2 gal/1sk |
| Depth 6193' | Depth | From | To | Pre-Pad 10 1/2" salt 1/4" Deform | Max .67% | FLM -115, 5' | 5 Min. 6.2 gal/1sk |
| Volume 146.39 | Volume | From | To | Pad 255 lbs "A" @ 15# | Min 1.18 | H/BK 5/2K 5' | 10 Min. 7 gal/1sk |
| Max Press | Max Press | From | To | Frac | Avg | | 15 Min. |
| Well Connection P.C. | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure |
| Plug Depth | Packer Depth | From | To | Flush 1 H2O | Gas Volume | | Total Load |

| | | |
|--|---------------------------------|----------------------|
| Customer Representative Roger Pearson | Station Manager Gary Bennett | Treater Chad HINE |
| Service Units 19464 19828 19919 19805 19883 | | |
| Driver Names CHINE J. Arrington J. McEwan | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------|-----------------|-----------------|--------------|------|--|
| 00:00 | | | | | CONFIDENTIAL on loc spot trucks, set the mtr |
| 00:45 | | | | | JUL 16 2008 Break Circ 15min Finish running |
| | | | | | KCC casing |
| 02:45 | | | | | Break Circ on bottom |
| 03:13 | 150 | | 0 | 3.5 | start superflush |
| 03:17 | 150 | | 12 | 3.5 | Pump H2O spacer |
| 03:18 | 150 | | 2 | 3.5 | start mixing AA-2 @ 15# |
| 03:26 | 0 | | 30 | 4.8 | Finish mixing |
| 03:26 | 0 | | 31 | | Shot down drop plug |
| | | | | | Pin in head was stripped had |
| | | | | | Problems, dropping plug |
| 03:50 | 0 | | 0 | 0 | back washup to pit |
| 03:56 | 0 | | 0 | 4.8 | start disp |
| 04:32 | | | 135 | 3.5 | Slow Rate |
| 04:36 | | | 150 | - | Shot down Check float |
| 04:40 | | | | | float held |
| | | | | | wait on Rig Crew to pull R+M |
| 05:11 | | | | | Plug R+M, washup to pit |
| | | | | | Job Complete |
| | | | | | Thank You Chad + Crew |

Considered a Geo Rpt.
for Steve's R.
KCC
MBW
7/24/08

O'Brien Energy Resources, Inc.
Borchers No. 1-34
Section 34, T32S, R29W
Meade County, Kansas
April, 2008

Well Summary

The O'Brien Energy Resources, Corporation, Borchers No. 1-34 was drilled as a wildcat to a total depth of 6200' in the St. Louis Formation without any problems and in a total of 127 rotating hours. Appreciation to Duke Drilling Rig 6 rig hands.

The closest offset to the St. Louis Formation is the Horizon Oil and Gas, Hallock No. 1-36, approximately 1 ¼ miles to the East. Formation tops from the Heebner to the Marmaton came in 28' high relative to this offset. Some thickening occurred as the Cherokee, Atoka and Morrow ran 19', 12' and 13' high respectively. The Chester came in 14' high. Structure was gained as the Ste. Genevieve came in 28' high and the St. Louis, 31' high.

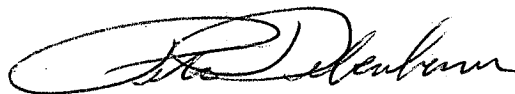
An excellent hydrocarbon show occurred at the top of the St. Louis(6098'-6108') and consists of a Dolomite – Dark brown, coarsely crystalline, sucrosic to granular, hard, brittle, excellent vuggy and intercrystalline porosity, dark brown matrix oil stain with dark goldbrown hydrocarbon fluorescence in all the Dolomite, excellent flash cut, abundant black live oil. A 150 Unit gas kick occurred on the hotwire.

A good show came from a very narrow interval in the Lower Ste. Genevieve(5986'-5988') and consists of Limestone – Dark brown, microcrystalline to coarsely crystalline, sucrosic, brittle, dolomitic, fair intercrystalline and trace vuggy porosity, dull goldbrown hydrocarbon fluorescence in 12% of the samples, excellent explosive cut and trace live oil. A 60 Unit gas kick occurred.

A four foot Morrow Sandstone is documented from 5684' to 5688'. A very fine grained Sandstone was noted in samples but not representative of this interval. Traces of medium to course unconsolidated Quartz grains were documented and is the representative lithology type from this interval. A 30 Unit gas increase was documented. Excellent porosity(20%) and permeability as noted on the microlog along with resistivities that would indicate it to be gas productive.

5 ½" production casing was run on the Borchers No. 1-34 on April 15 to production test oil from the St. Louis Formation and gas from the Morrow.

Respectfully Submitted,



Peter Debenham

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WICHITA, KS

WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH
Geologist: Paul Wiemann – Denver, CO

Prospect Geologist: Ed Schuett, Denver, Land: Gordon Beamguard

Well: Borchers No. 1-34, Wildcat

Location: 330' FSL & 1110' FEL, Section 34, T32S, R29W, Meade County, Kansas – 8 miles East of Plains.

Elevation: Ground Level 2642', Kelly Bushing 2654'

Contractor: Duke Drilling Rig No. 6, Type: Double jackknife, double stand, Toolpusher Rick Schollenbarger, Drillers: Jessie Howell, Danny White, Mike Brewer

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 4/8/08

Total Depth: 4/13/08, Driller 6200', Logger 6199', St. Louis Fm.

Casing Program: 39 joints of 8 5/8", J55, 24Lbs/ft, set at 1561'. 5 1/2" production casing to TD.

Mud Program: Mud Co./Service Mud Inc., Engineer Tony Maestas, Jody Dietz, mud up 4000'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350, Drake, CO 80515, 720/220-4860.

Samples: 30' to 4600', 20' to 5200', 10' to TD. One set dry cut sent of KGS sample log library, Wichita

Electric Logs: Log-Tech, Engineer Justin Loffredi, 1)Dual Induction 2) Compensated Neutron Litho Density 3) Microlog

Status: 5 1/2 " production casing to TD on 4/15/08.

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WELL CHRONOLOGY

6 AM
DATE DEPTH

FOOTAGE

RIG ACTIVITY

4/7
and mousehole. Move to location and rig up rotary tools. Mix spud mud. Drill rat

4/8 1561' 1561' Spud in 12 1/4" surface hole and drill to 1561'. Run surveys(1/4 deg.). Install new geolograph line. Circulate and trip out for surface casing. Run and cement 39 joints of 8 5/8" surface casing.

4/9 2370' 809' Rig up cementers and cement casing with 605 sacks and wait on cement. Back off landing joint and nipple up and pressure test BOP. Trip in, drill plug and shoe and drill 7 7/8" hole to 2370'.

4/10 3770' 1400' Run survey(1/2 deg.). Clean suction and drill to 3770'.

4/11 4915' 1145' To 4915' and drilling ahead. **CONFIDENTIAL**

4/12 5575' 660' Circulate for samples at 5055' & 2008

4/13 6070' 495' Circulate for samples at 5690', 5700', 5710' and 6002'. Drill to 6070' and drilling ahead. **1000**

4/14 6200' TD 130' Circulate for samples at 6115'. Drill to 6200'TD and circulate. Short trip 25 stands and circulate. Trip out for logs and run electric logs. Trip to bottom and circulate. Trip out laying down.

4/15 TD Run and cement 5 1/2 " production casing, set 4 am. Rig down.

BIT RECORD

| <u>NO.</u> | <u>MAKE</u> | <u>TYPE</u> | <u>SIZE</u> | <u>OUT</u> | <u>FOOTAGE</u> | <u>HOURS</u> |
|-----------------------|-------------|-------------|-------------|------------|----------------|--------------|
| 1 | STC | EHT11GC | 12 1/4" | 1561' | 1561' | 19 1/4 |
| 2 | HTC | HC 5062' | 7 7/8" | 6200' | 4639' | 107 3/4 |
| Total Rotating Hours: | | | | | | 127 |
| Average: | | | | | | 48.82 Ft/hr |

DEVIATION RECORD - degree

518' 1/4, 1003' 1/4, 2539' 1/2, 6200' 1

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MUD PROPERTIES

| <u>DATE</u> | <u>DEPTH</u> | <u>WT</u> | <u>VIS</u> | <u>PV</u> | <u>YP</u> | <u>pH</u> | <u>WL</u> | <u>CL</u> | <u>LCM-LBS/BBL</u> |
|-------------|--------------|------------|------------|-----------|-----------|-----------|-----------|-----------|--------------------|
| 4/5 | 0' | Well water | | | | | | | |
| 4/8 | 1011' | 9.4 | 31 | 4 | 8 | 7.0 | nc | 100 | tr |
| 4/10 | 3027' | 9.0 | 34 | 5 | 9 | 7.0 | nc | 9K | 3 |
| 4/11 | 4495' | 9.2 | 40 | 10 | 12 | 9.5 | 21.6 | 9K | 2 |
| 4/12 | 5255' | 9.0 | 38 | 9 | 11 | 10.5 | 9.6 | 4.5K | -- |
| 4/13 | 5710' | 8.9 | 48 | 14 | 16 | 11.0 | 6.4 | 3K | 3 |
| 4/14 | 6185' | 9.1 | 49 | 15 | 15 | 11.0 | 6.4 | 2.8K | 3 |

ELECTRIC LOG FORMATION TOPS- KB Elev. 2654'

| <u>FORMATION</u> | <u>DEPTH</u> | <u>DATUM</u> | <u>*Hallock No. 1-36</u> | |
|------------------|--------------|--------------|--------------------------|-----------------|
| | | | <u>DATUM</u> | <u>POSITION</u> |
| Heebner | 4428' | -1774' | -1802' | +28' |
| Toronto | 4450' | -1796' | -1824' | +28' |
| Lansing | 4566' | -1912' | -1954' | +42' |
| Marmaton | 5194' | -2540' | -2568' | +28' |
| Cherokee | 5371' | -2717' | -2736' | +19' |
| Atoka | 5612' | -2958' | -2970' | +12' |
| Morrow | 5663' | -3001' | -3022' | +13' |
| Morrow SS | 5684' | -3030' | -3030' | 0' |
| Chester | 5712' | -3058' | -3072' | +14' |
| Ste. Genevieve | 6010' | -3356' | -3384' | +28' |
| St. Louis | 6098' | -3444' | -3475' | +31' |
| TD | 6200' | -3546' | | |

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*Horizon Oil & Gas, Hallock No. 1-36, Borchers North Field, C SW, Section 32 – approxamitley 1 ¼ mile to the East, KB Elevation 2582'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED
CORRECTED E-LOG FORMATION TOPS
*INDICATES HYDROCARBON SHOW

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2990-3020 SHALE: Dk gray brown black gygn hard blocky calcareous fossils carbonaceous interbed with LIMESTONE: As below

3020-3125 LIMESTONE: Med to dark mottled gray to brown dark mottled brown occasional black biomict fine crystalline dense silica in part very carbonaceous chrt nodls fossils argillaceous to marly moldic porosity orange mineral fluorescence no show interbed with SHALE: as above with CHRT: Brn translucent white gray hard crystalline

3125-3210 LIMESTONE: Mot red to brown brick red gray gygn firm dense micr fine crystalline argillaceous to marly carbonaceous fossils trace moldic porosity no fluorescence no stain or cut interbed with SHALE: Redbrn brick red gygn to green firm blocky waxy carbonaceous fossils

3210-3300 LIMESTONE: Mot brown to gray redbrn firm blocky biomicro fine crystalline dense sandy fossils oolites carbonaceous argillaceous to marly tight no show occasional interbed with SHALE: as above

3300-3435 LIMESTONE: Lr brown buff mottled white micr micxln silica clean to argillaceous in part carbonaceous sandy fossils in part with occasional moldic porosity predominant tight no show with CHRT Nodls interbed with SHALE: Gy brown gygn firm blocky carbonaceous fossils in part with CHRT: Brn gray translucent hard crystalline

3435-3520 LIMESTONE: Lt to medium mottled brown buff white micr micxln micsuc in part firm brittle clean fossils sandy trace moldic porosity no show occasional interbed with SHALE: as above

3520-3570 LIMESTONE: Lt brown buff oobiomicro micxln sucrosic brittle clean very oolites and fossils in part occasional exc moldic and vug porosity orange mineral fluorescence no show interbed with SHALE: Gy to brown firm blocky calcareous

3570-3670 LIMESTONE: Brn gray micr crpxln hard dense argillaceous to marly in part fossils tight no show interbed with SHALE: Gy dark brown mottled hard blocky calcareous silty

3670-3725 LIMESTONE: Mot brown to gray crpxln hard dense argillaceous fossils tight no show interbed with SHALE: as above

3725-3800 LIMESTONE: Mot brown to gray crpxln hard dense argillaceous fossils tight no show interbed with SHALE: Dk brown to gray hard blocky calcareous silty

3800-3900 SHALE: Dk brown gray hard blocky calcareous carbonaceous interbed with LIMESTONE: Dk brown micr crpxln hard dense marly tight no show

3900-4030 SHALE: Blk dark gray to brown hard blocky calcareous silty carbonaceous occasional interbed with LIMESTONE: Dk brown occasional black micr crpxln hard dense silica carbonaceous fossils tight no show

4030-4140 LIMESTONE: Dk mottled brown gray black micr crpxln hard dense marly tight no show interbed with SHALE: Blk dark brown hard blocky carbonaceous calcareous

4140-4230 SHALE: Blk dark brown to gray hard blocky calcareous carbonaceous interbed with marly LIMESTONE: as above poor vis porosity no fluorescence no stain or cut

4230-4315 LIMESTONE: Dk mottled brown gray black micr crpxln hard dense marly tight no show interbed with SHALE: Blk dark brown hard blocky carbonaceous calcareous

4315-4385 SHALE: Blk dark brown to gray firm blocky carbonaceous calcareous silty

4385-4425 LIMESTONE: Mot brown light gray biomicro fine crystalline hard dense argillaceous to marly fossils tight no show interbed with SHALE: Blk very dark brown hard sbfis to blocky very carbonaceous

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Heebner 4428'

4425-4435 SHALE: Blk very dark brown hard sbfis to blocky very carbonaceous

Toronto 4450'

4435-4465 SHALE: Blk dark brown to gray hard sbfis to blocky very carbonaceous interbed with Limestone: as above argillaceous to marly in part tight no show

Lansing 4566'

4465-4505 LIMESTONE: Mot brown biomicr crpxln dense argillaceous to clean carbonaceous fossils poor vis porosity occasional moldic no show

4505-4555 SHALE: Dk gray gygn black firm blocky carbonaceous silty interbed with LIMESTONE: as above no show

4555-4615 LIMESTONE: Lt to medium brown oomicr micxln sucrosic in part clean brittle fossils ooclasts exc moldic porosity no fluorescence no stain or cut

4615-4680 SHALE: Dk to medium gray gygn dark brown to black hard blocky carbonaceous calcareous interbed with LIMESTONE: Mot brown gray biomicr fine crystalline dense to exc moldic porosity no fluorescence no stain or cut trace Chrt: Gy hard crystalline

4680-4730 SHALE: Dk gray brown to black occasional gygn hard blyr carbonaceous calcareous silty in part interbed with LIMESTONE: Mot brown gray biomicr fine crystalline dense to exc moldic porosity no fluorescence no stain or cut trace Chrt: Gy hard crystalline

4730-4800 LIMESTONE: Lt brown micxln sucrosic brittle clean gd intxln and occasional moldic porosity no fluorescence no stain or cut with LIMESTONE: Mot brown to gray micr crpxln dense silica clean fossils tight no show trace CHRT

4800-4825 SHALE: Blk dark gray mottled brown firm blocky carbonaceous silty interbed with LIMESTONE: Lt brown micxln sucrosic brittle clean gd intxln and occasional moldic porosity no fluorescence no stain or cut with LIMESTONE: Mot brown to gray micr crpxln dense silica clean fossils tight no show trace CHRT

4825-4840 LIMESTONE: Brn oomicr fine crystalline brittle clean very oolites with exc oomoldic porosity no show

4840-4935 LIMESTONE: Lt to medium mottled brown buff fine crystalline micsuc sbchky in part silica in part dense to trace moldic porosity no fluorescence no stain or cut trace CHRT: Brn mlty white to gray hard crystalline

4935-5000 LIMESTONE: Med to light mottled brown buff micxln micsuc brittle clean sbchky in part oolites fossils sndy trace intxln and moldic porosity no fluorescence no stain or cut with trace CHRT

5000-5030 LIMESTONE: Dk mottled brown crpxln hard dense silica clean fossils tight no show

5030-5040 SHALE: Blk firm sbfis to fissile carbonaceous silty

5040-5075 LIMESTONE: Med to dark mottled brown crpxln hard dense silica argillaceous to marly in part fossils tight no show

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5075-5090 SHALE: Dk brown black hard sbfis carbonaceous silica in part with trace CHRT: Blk dark brown mlky hard crystalline

5090-5170 LIMESTONE: Dk mottled brown micr crpxln hard dense argillaceous to marly silica in part tight no fluorescence no stain or cut occasional interbed with SHALE trace CHRT

Marmaton 5194'

5205-5225 LIMESTONE: Dk mottled brown micr crpxln hard dense argillaceous to marly silica in part tight no fluorescence no stain or cut

5225-5250 SHALE: Dk brown gray blkfrm sbfis to blocky carbonaceous calcareous silty occasional interbed with LIMESTONE: Dk mottled brown micr crpxln hard dense argillaceous to marly silica in part tight no fluorescence no stain or cut

5250-5305 LIMESTONE: Mot brown buff oomicr fine crystalline brittle clean very oolites with exc oomoldic porosity no fluorescence no stain or cut

Cherokee 5371'

5305-5385 SHALE: Blk firm sbfis carbonaceous silty interbed with LIMESTONE: Lt brown buff micr micxln micsuc in part clean to argillaceous carbonaceous and coal incl fossils trace moldic and intxln porosity no fluorescence no stain or cut trace CHRT

5385-5405 SHALE: Dk mottled gray to brown black hard blocky carbonaceous silty

5405-5480 LIMESTONE: Mot brown gray micr fine crystalline hard dense ar to marly carbonaceous silty sbchky in part poor vis porosity no show interbed with SHALE: Blk gray firm sbfis to blocky carbonaceous trace CHRT

5480-5545 LIMESTONE: Mot brown fine crystalline dense sbchky in part argillaceous silty fossils poor vis porosity occasional trace light mottled blue hydrocarbon fluorescence faint cut weak show interbed with SHALE: AA black dark brown trace CHRT: Blky mlky gray hard crystalline

5545-5555 LIMESTONE: Med brown micxln slightly sucrosic in part sbchky in part clean to argillaceous trace intxln porosity trace(2% sample) bright yellow to pale blue hydrocarbon fluorescence faint cut trace oil stain weak show

5555-5620 SHALE: Dk gray black hard sbfis to blocky carbonaceous calcareous interbed with LIMESTONE: Gy mottled brown micr fine crystalline sbchky in part argillaceous to marly fossils tight no show

Atoka 5612'

5620-5670 LIMESTONE: Mot gray to brown occasional black micr fine crystalline sbchky in part argillaceous to marly fossils tight no show interbed with SHALE: Dk gray black firm sbfis carbonaceous CHRT: Dk gray brown black mlky hard crystalline

Morrow 5663'

5670-5688 LIMESTONE: Med to dark mottled gray brown black micxln micsuc brittle sbchky in part hard dense argillaceous to marly fossils very sndy carbonaceous fossils tight no show

Morrow Sandstone 5684'

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5688-5692 SANDSTONE: Brn gray hard dense slightly friable vfu/fu well sorted sbrnd grains clay cement slightly calcareous very silica in part trace intgran and vug porosity predominant tight no fluorescence no stain or cut with trace coarse sbang unconsl grains

5692-5702 LIMESTONE: S&P brown to gray speck green fine crystalline hard dense very sndy and glauconitic in part poor vis porosity no show grdng to SANDSTONE: Brn speck green to gray hard slightly friable very fine well sorted grains silica cement clean to argillaceous very calcareous very glauconitic in part tight no show

5702-5712 SHALE: Dk gray black gygn firm fissile carbonaceous waxy interbed with LIMESTONE: Brn chalky firm sndy glauconitic tight no show

Chester 5712'

5712-5738 LIMESTONE: Lt to medium mottled brown buff micr sbchky clean to argillaceous fossils sndy and glauconitic in part tight no show

5738-5760 LIMESTONE: Lt mottled brown buff micxln chalky clean to argillaceous carbonaceous mineral fluorescence no show poor vis porosity

5760-5788 SHALE: Blk dark gray black sbfis carbonaceous with CHRT: Gy hard crystalline with LIMESTONE: Mot brown to orange gray buff chalky soft clean to argillaceous fossils poor vis porosity no show

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5788-5810 SHALE: Gy gygn soft sbfis waxy

5810-5844 LIMESTONE: Med to light mottled brown orngrn buff soft chalky brittle clean fossils tight no show with SHALE: as above

5844-5894 LIMESTONE: Med to light mottled brown orngrn buff soft chalky brittle clean fossils tight no show

5894-5908 SHALE: Gy brown gygn tan sbfis to blocky waxy

5908-5936 LIMESTONE: Mot brown micr fine crystalline chalky brittle clean fossils sndy glauconitic tight no fluorescence no stain or cut

5936-5960 SHALE: Red to orngrn gray gygn to medium green maroon varic in part firm blocky to sbfis waxy interbed with LIMESTONE: Lt brown buff white soft chalky sndy fossils poor vis porosity no show

5960-5986 LIMESTONE: Mot brown micr fine crystalline chalky brittle clean fossils sndy glauconitic tight no fluorescence no stain or cut

5986-5988 *60 Units Gas, LIMESTONE: Dk brown micxln to coarse crystalline sucrosic brittle dolie fair intxln porosity trace vug porosity dull goldbrn hydrocarbon fluorescence(12% sample) exc expositive cut trace live oil fair show

Ste. Genevieve 6010'

5988-6034 LIMESTONE: Mot brown to gray micr fine crystalline dense sndy fossils oolites silica in part poor vis porosity no show

6034-6044 SHALE: Red to orngbrn gray gygn to medium green maroon varic in part firm blocky to sbfis waxy

6044-6084 LIMESTONE: Lt to medium brown buff tan fine crystalline sbchky clean very sndy oolites fossils tight no show

6084-6100 LIMESTONE: Brn tan buff fine crystalline hard dense silica chalky and soft in part sndy fossils clean tight no show

St. Louis 6098'

6100-6110 *150 Units Gas, DOLOMITE: Dk brown coarse crystalline sucrosic to granular in part hard brittle exc vug and intxln porosity dark brown matrix oil stain dark goldbrn hydrocarbon fluorescence(50% sample) exc flash cut heavy black live oil exc show

6110-6150 LIMESTONE: Med mottled brown gray buff light brown oomicr fine crystalline sbchky very sndy and oolites clean poor vis porosity no show

6150-6200 LIMESTONE: Lt brown buff white soft chalky in part clean very oolites and sndy fossils poor vis porosity no fluorescence no stain or cut

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LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial

Well Name: Dave Holke/O'Brien Energy, Borchers No. 1-34
Location: 330'FSL & 1110'FEL, Section 34, 32S, R29W, Meade Co., KS
Licence Number: API: 15-119-21193 Region: Hougoton
Spud Date: 4/8/08 Drilling Completed: 4/14/08
Surface Coordinates: 330'FSL & 1110'FEL, Section 34, 32S, R29W, Meade Co., KS

Bottom Hole Coordinates:
Ground Elevation (ft): 2642' K.B. Elevation (ft): 2654'
Logged Interval (ft): 3000' To: TD Total Depth (ft): 6200'
Formation: Lansing, Morrow, Chester, Ste Genevieve, St. Louis
Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 4000'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Dave Holke/O'Brien Energy Resources, Corp.
Address: 18 Congress St., Suite 207
Portsmouth, NH 03801
President/Owner John Forma, Geologist Paul Wieman 2008

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GEOLOGIST

Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

Comments

Engineer Roger Pearson, Duke Drilling Rig No. 6, T.P. Rick S., Drillers Jessie Howell, Danny White, Mike Brewer, Log-Tech, Service Mud/Mud Cp. engineer Tony Maestas, 20" conductor pipe, 8 5/8" set to 1561', 5 1/2" production casing set 4/15/08.

ROCK TYPES

| | | | | | | | | | |
|--|------|---|-------|---|------|--|-------|---|-------|
|  | Anhy |  | Clyst |  | Gyp |  | Mrlst |  | Shgy |
|  | Bent |  | Coal |  | Igne |  | Salt |  | Sltst |
|  | Brec |  | Congl |  | Lmst |  | Shale |  | Ss |
|  | Cht |  | Dol |  | Meta |  | Shcol |  | Till |

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WICHITA, KS

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb

- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymn
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg

- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic

- Pinpoint
- Vuggy

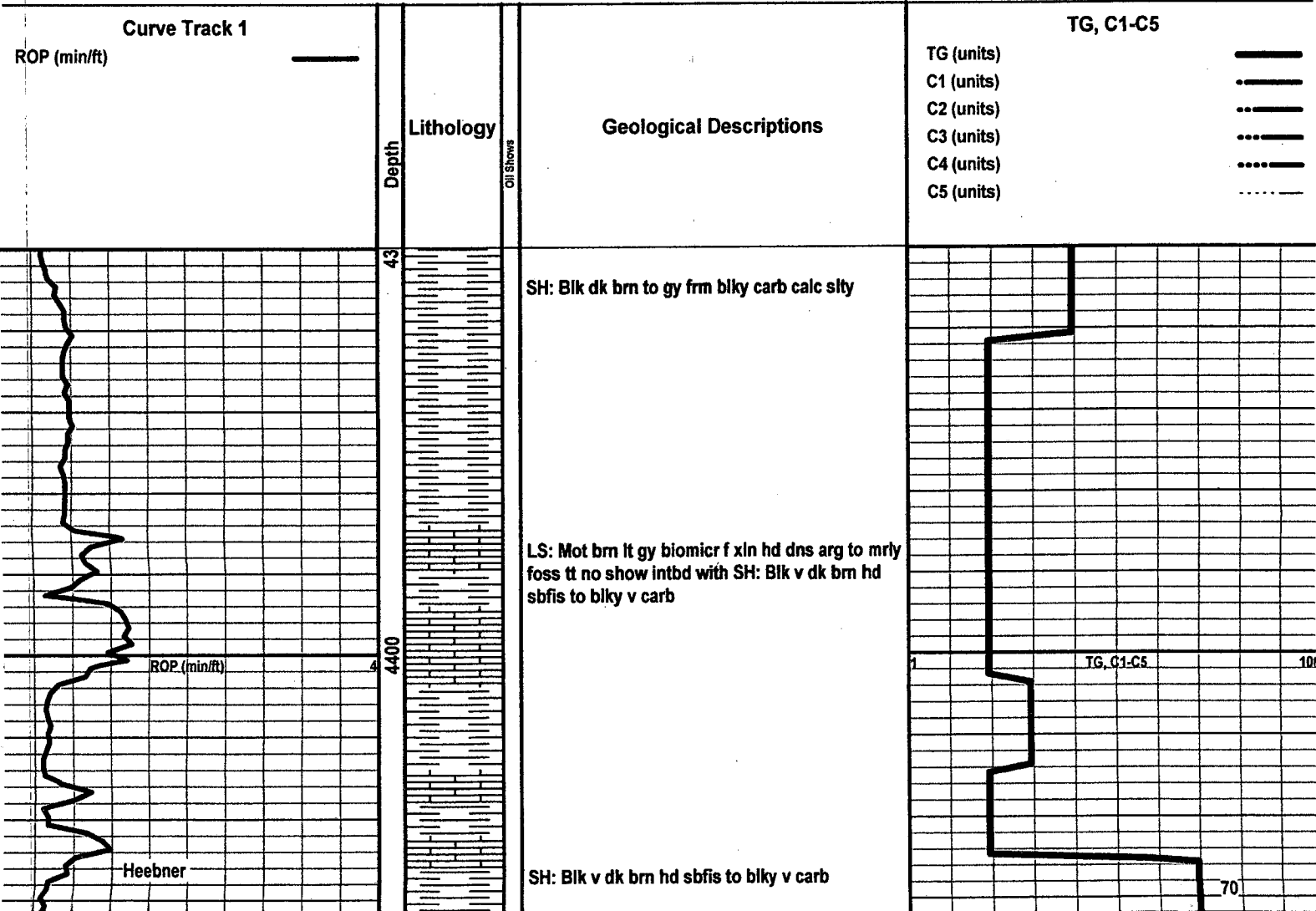
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 Well 16 2008
 Moderate
 Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead



SH: Blk dk brn to gy hd sbfis to blk v carb intbd
with LS: aa arg to mrlty ip tt no show

LS: Mot brn biomcr crpxln dns arg to cin carb
foss p vis por occ moldic no show

SH: Dk gy gygn blk frm blk carb stly intbd with
LS: aa no show

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LS: Lt to med brn oomicr micxln suc ip cin brit
foss ooc exc moldic por no flor no stn or cut

SH: Dk to med gy gygn dk brn to blk hd blk
carb calc intbd with LS: Mot brn gy biomcr f xln
dns to exc moldic por no flor no stn or cut tr
Chrt: Gy hd xln

Toronto

Lansing

ROP (min/R)

4450

4500

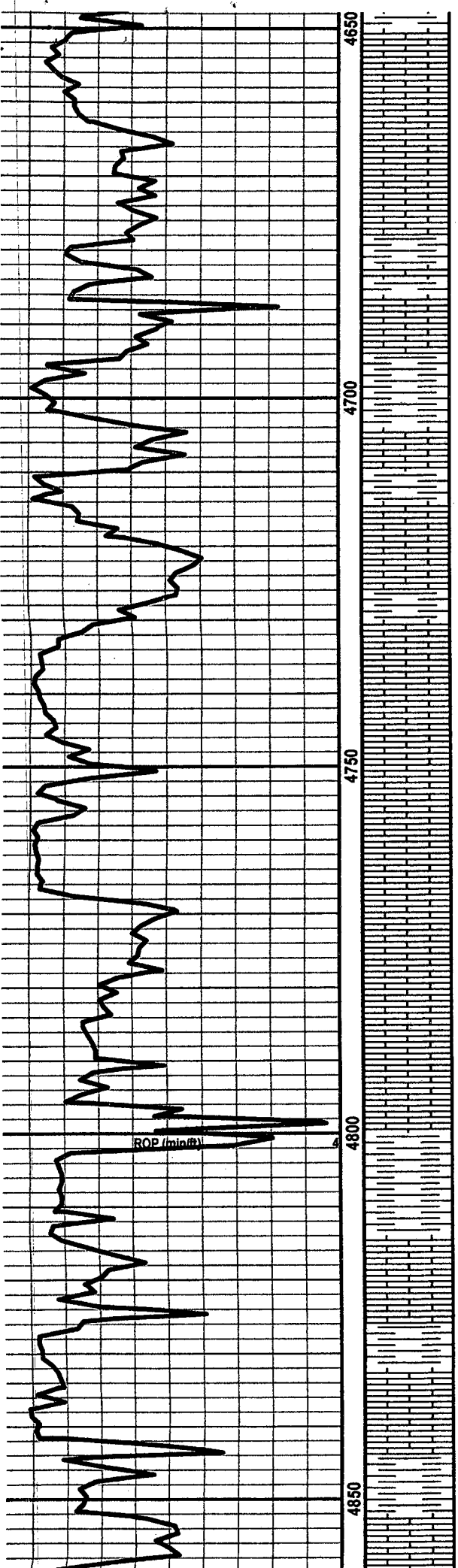
4550

4600

TG, C1-C5

40

10



SH: Dk gy brn to blk occ gygn hd blry carb calc
sly ip intbd with LS: Mot brn gy biomcr f xln
dns to exc moldic por no flor no stn or cut tr
Chrt: Gy hd xln

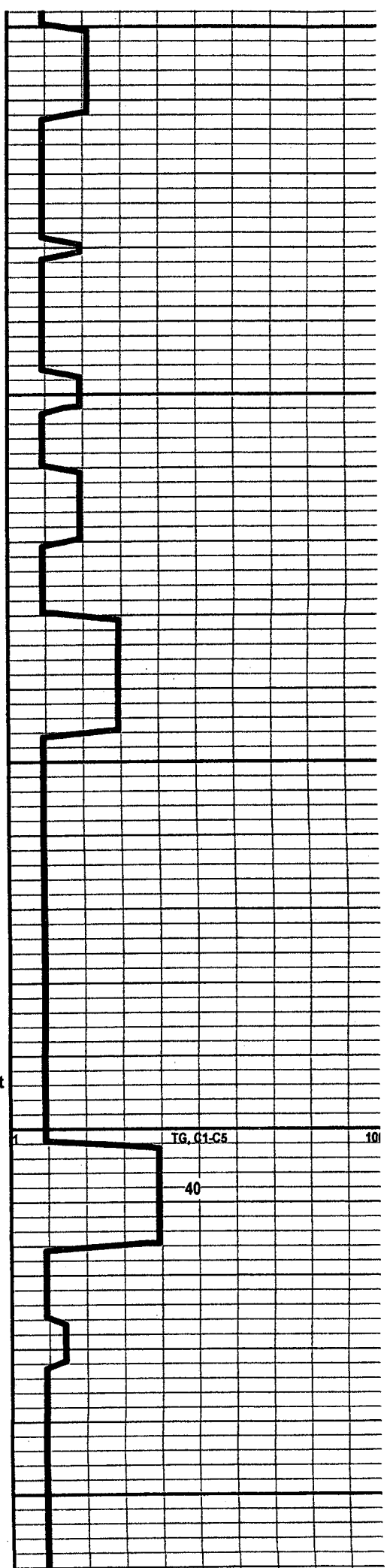
LS: Lt brn micxn suc brit cln gd intxn & occ
moldic por no flor no stn or cut with LS: Mot brn
to gy micr crpxln dns sil cln foss tt no show tr
CHRT

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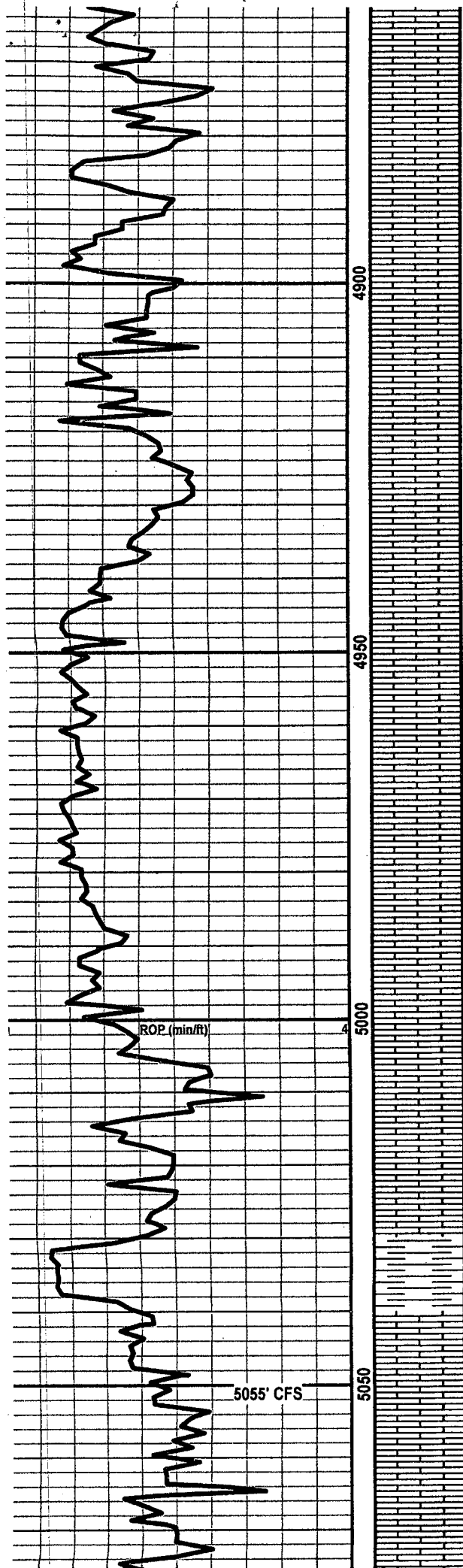
SH: Blk dk gy mot brn frm blk carb sity intbd
with LS: Lt brn micxn suc brit cln gd intxn &
occ moldic por no flor no stn or cut with LS: Mot
brn to gy micr crpxln dns sil cln foss tt no show
tr CHRT

LS: Brn oomicr f xln brit cln v ool with exc
oomoldic por no show

LS: Lt to med mot brn bf f xln micsuc sbchky ip
oil in des to tr moldic por no flor no stn or cut tr



CHRT: Brn mlty wh to gy hd xin



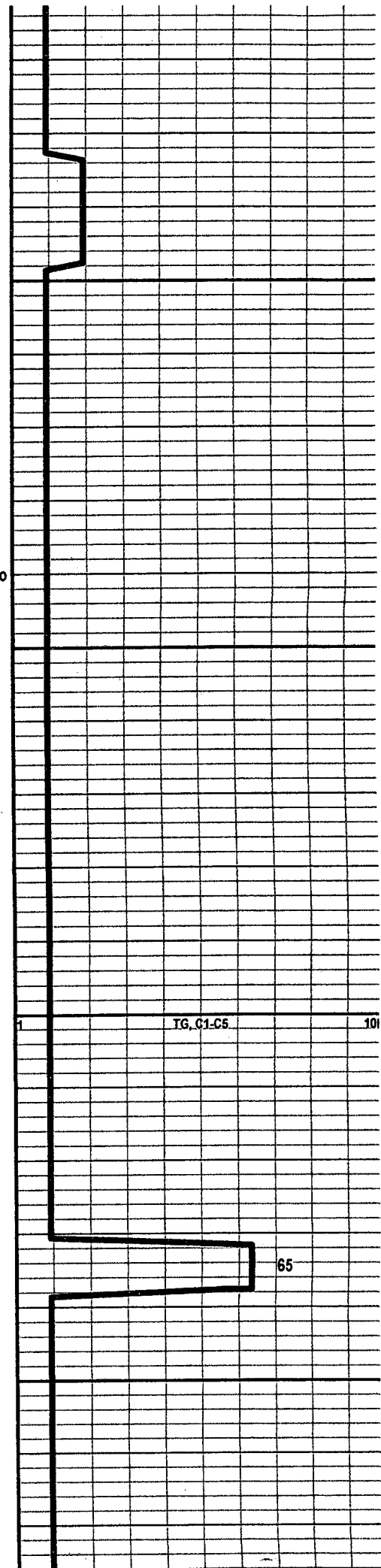
LS: Med to lt mot brn bf micln micsuc brit cln sbchky ip ool foss sndy tr intxln & moldic por no flor no stn or cut with tr CHRT

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LS: Dk mot brn crpxln hd dns sil cln foss tt no show

SH: Blk frm sbfis to fis carb slty

LS: Med to dk mot brn crpxln hd dns sil arg to mry ip foss tt no show



TG, C1-C5

65

Blk dk brn mlky hd xln

LS: Dk mot brn micr crpxln hd dns arg to mrly sil ip tt no flor no stn or cut occ intbd with SH tr CHRT

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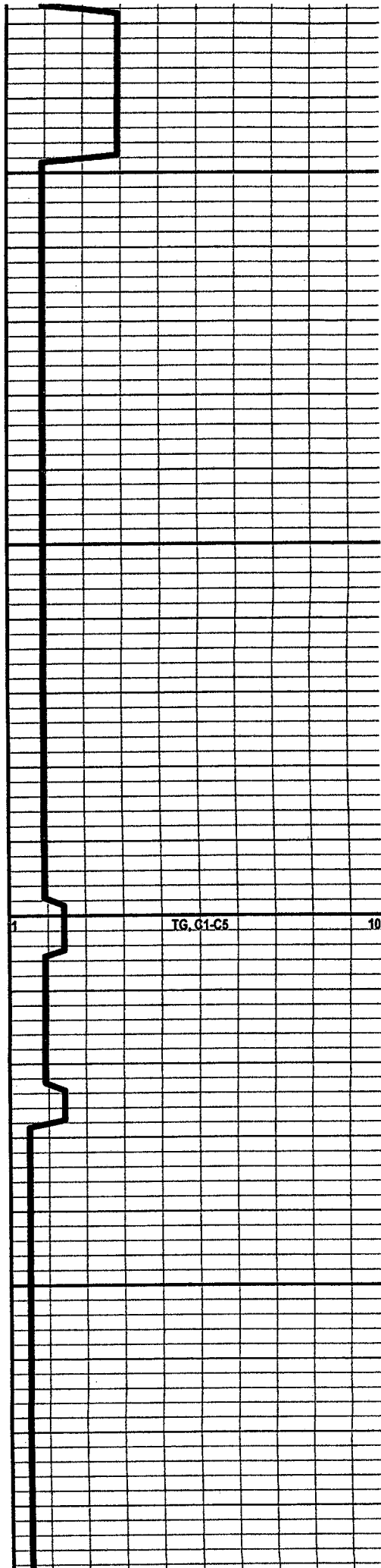
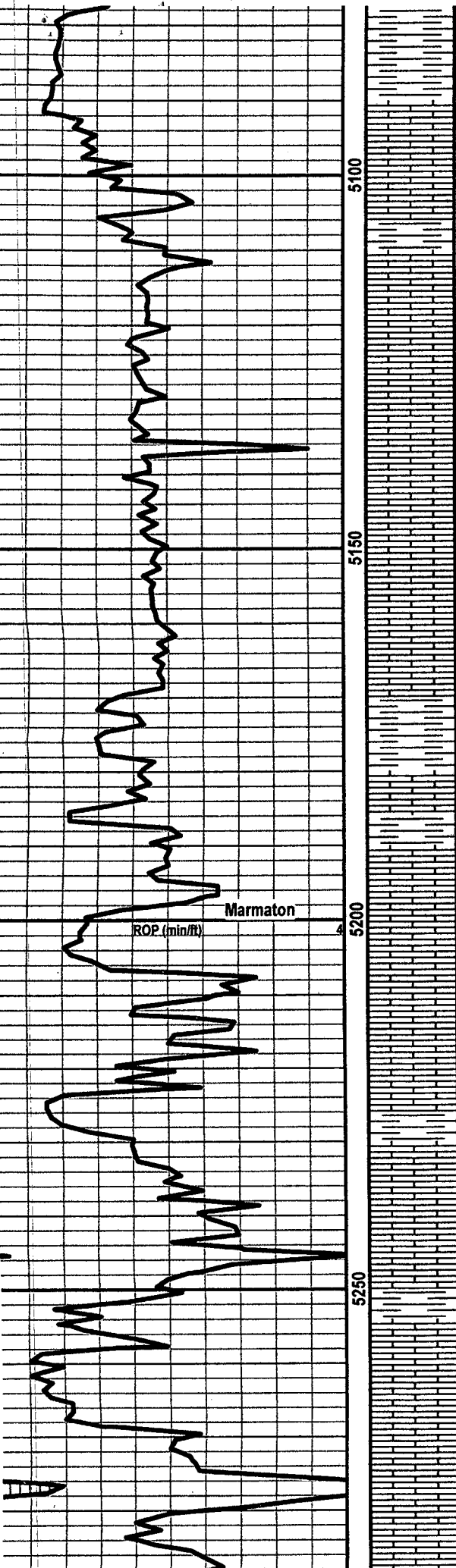
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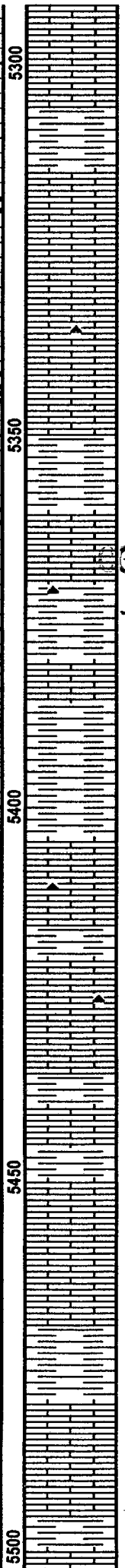
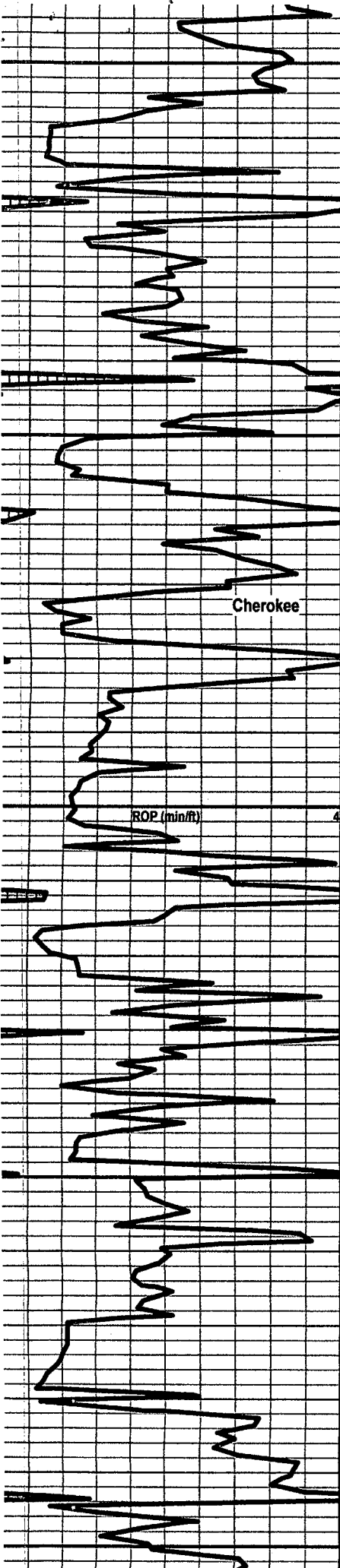
LS: Dk mot brn micr crpxln hd dns arg to mrly sil ip tt no flor no stn or cut

SH: Dk brn gy blkfrm sbfis to blkly carb calc slty occ intbd with LS: Dk mot brn micr crpxln hd dns arg to mrly sil ip tt no flor no stn or cut

LS: Mot brn bf oomicr f xln brit cln v ool with exc oomoldic por no flor no stn or cut



TG, C1-C5 101



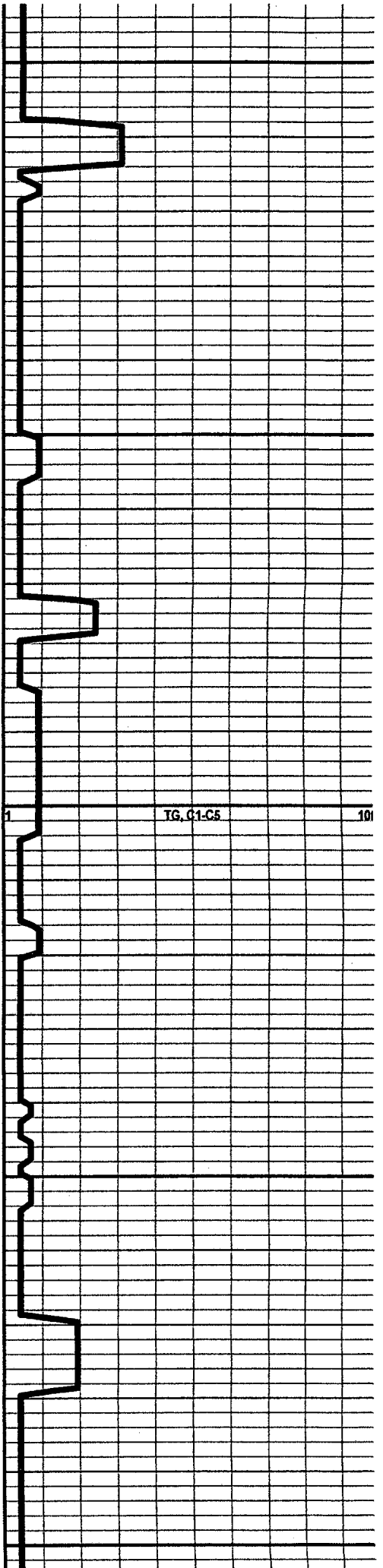
SH: Blk frm sbfis carb sity intbd with LS: Lt brn
 bf micr micxln micsuc ip cln to arg carb & coal
 incl foss tr moldic & intxln por no flor no stn or
 cut tr CHRT

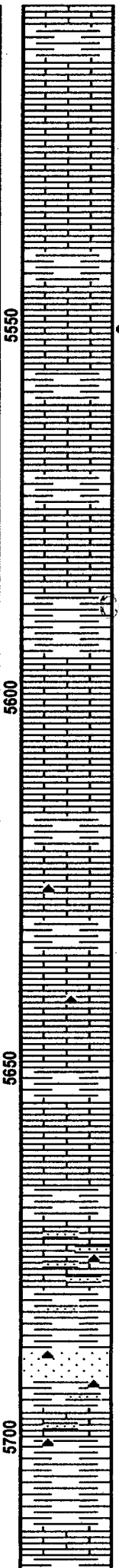
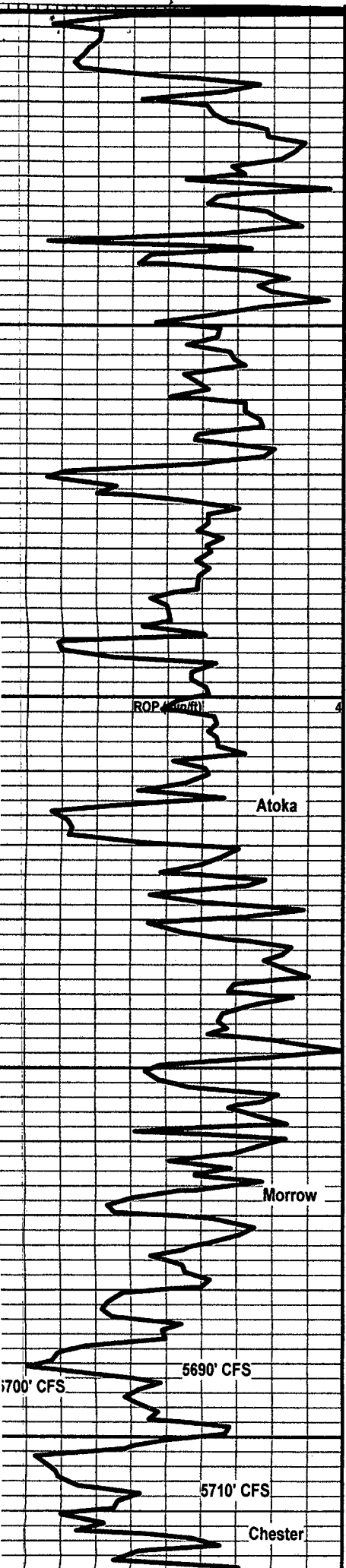
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SH: Dk mot gy to brn blk hd blk carb sity

LS: Mot brn gy micr f xln hd dns ar to mrlly carb
 sity sbchky ip p vis por no show intbd with SH:
 Blk gy frm sbfis to blk carb tr CHRT

LS: Mot brn f xln dns sbchky ip arg sity foss p
 vis por occ tr lt mot bl hydc flor fnt cut wk show
 intbd with SH: AA blk dk brn tr CHRT: Blky mky
 gy hd xln





LS: Med brn micxn sl suc ip sbchky ip cln to arg tr intxn por tr(2% spl) bri yel to pale bl hydc flor fnt cut tr o stn wk show

SH: Dk gy blk hd sbfis to blk carb calc intbd with LS: Gy mot brn micr f xln sbchky ip arg to mrlly foss tt no show

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LS: Mot gy to brn occ blk micr f xln sbchky ip arg to mrlly foss tt no show intbd with SH: Dk gy blk frm sbfis carb CHRT: Dk gy brn blk mky hd xln

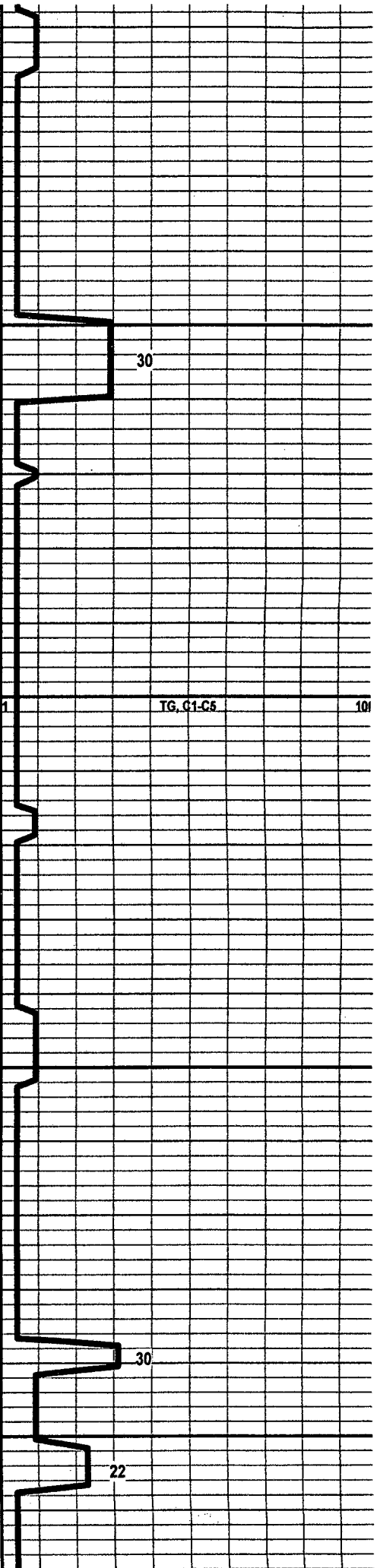
LS: Mot gy to brn occ blk micr f xln sbchky ip arg to mrlly foss tt no show intbd with SH: Dk gy blk frm sbfis carb CHRT: Dk gy brn blk mky hd xln

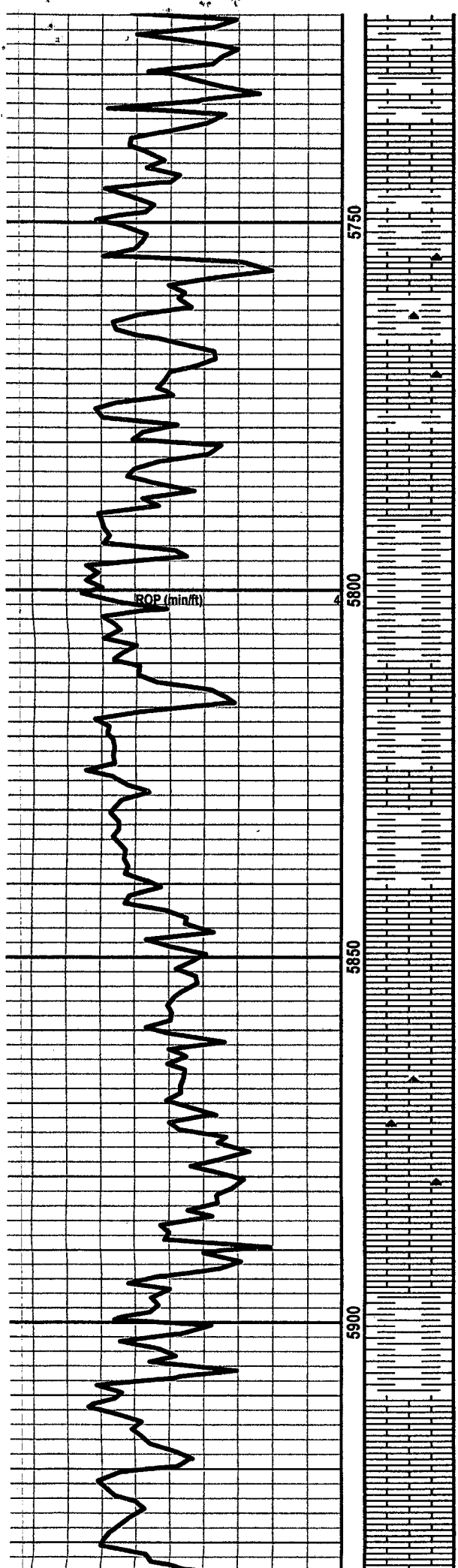
LS: Med to dk mot gy brn blk micxn micsuc brit sbchky ip hd dns arg to mrlly foss v sndy carb foss tt no show

SS: Brn gy hd dns sl fri vfu/fu w srted sbrnd grs clay cmt sl calc v sil ip tr intgran & vug por pred tt no flor no stn or cut with tr c sbang unconsl grs

LS: S&P brn to gy spec gn f xln hd dns v sndy & glauc ip p vis por no show grdng to SS: Brn spec gn to gy hd sl fri vf w srted grs sil cmt cln to arg v calc v glauc ip tt no show

SH: Dk gy blk gygn frm fis carb wxy intbd with LS: Brn chky frm sndy glauc tt no show





LS: Lt to med mot brn bf micr sbchky cln to arg foss sndy & glauc ip tt no show

LS: Lt mot brn bf micxn chky cln to arg carb min flor no show p vis por

SH: Blk dk gy blk sbfis carb with CHRT: Gy hd xln with LS: Mot brn to orng gy bf chky sft cln to arg foss p vis por no show

SH: Gy gygn sft sbfis wxy

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LS: Med to lt mot brn orngbrn bf sft chky brit cln foss tt no show with SH: aa

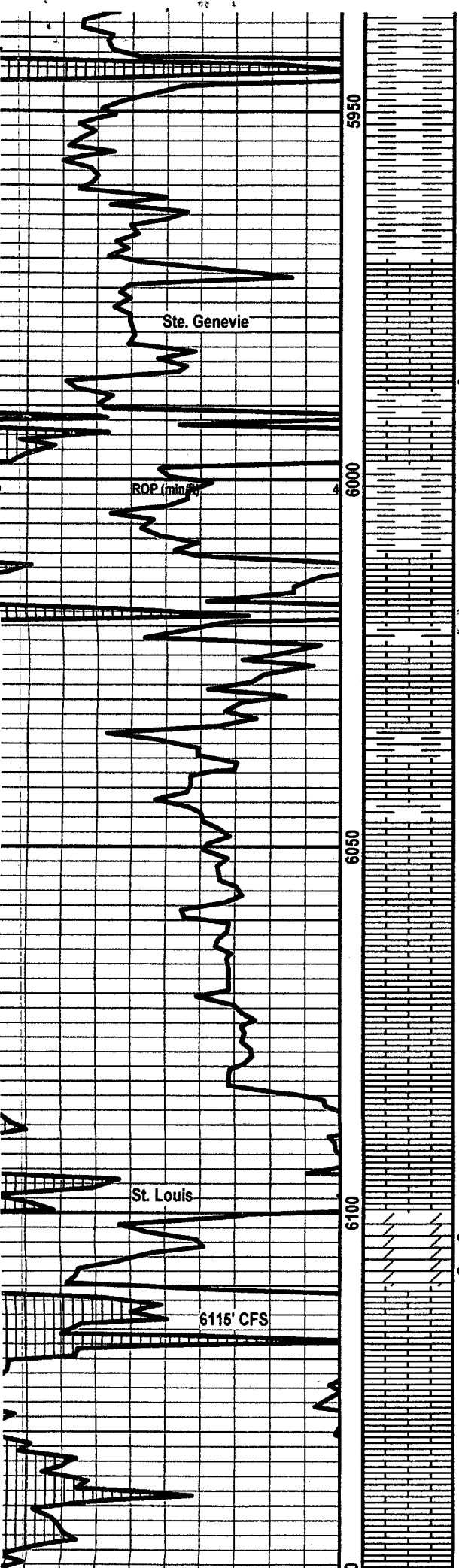
LS: Med to lt mot brn orngbrn bf sft chky brit cln foss tt no show

SH: Gy brn gygn tan sbfis to blkly wxy

LS: Mot brn micr f xln chky brit cln foss sndy glauc tt no flor no strn or cut

TG, C1-C5

101



SH: Red to orngbrn gy gygn to med gn mar varic
ip frm blkly to sbfis wxy intbd with LS: Lt brn bf
wh sft chky sndy foss p vis por no show

LS: Mot brn micr f xln chky brit cln foss sndy
glauc tt no flor no stn or cut

LS: Dk brn micxln to c xln suc brit dolc fr intxln
por tr vug por dull goldbrn hydc flor(12% spl)
exc exposive cut tr live o fr show

LS: Mot brn to gy micr f xln dns sndy foss ool sil
ip p vis por no show

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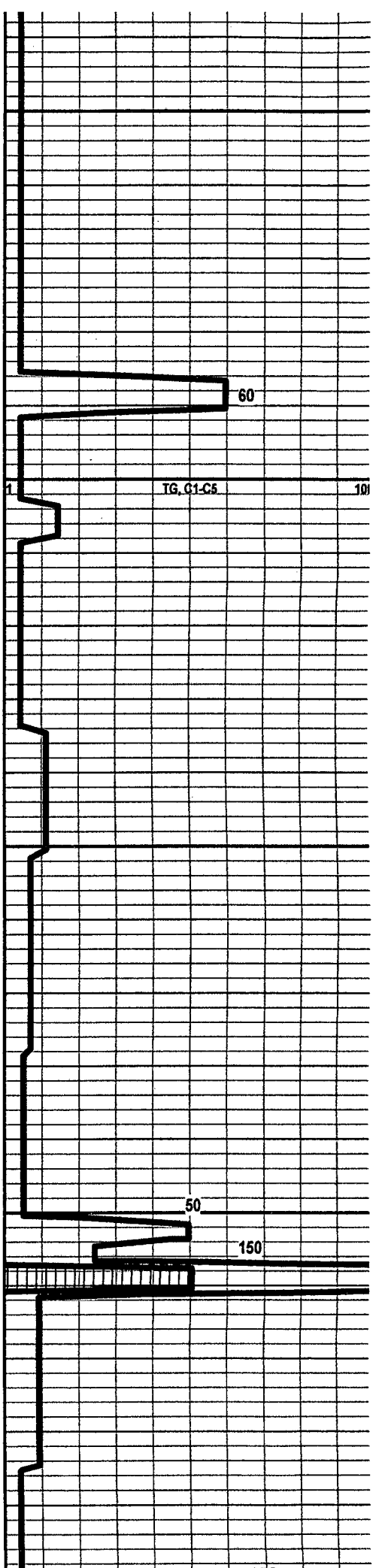
SH: Red to orngbrn gy gygn to med gn mar varic
ip frm blkly to sbfis wxy

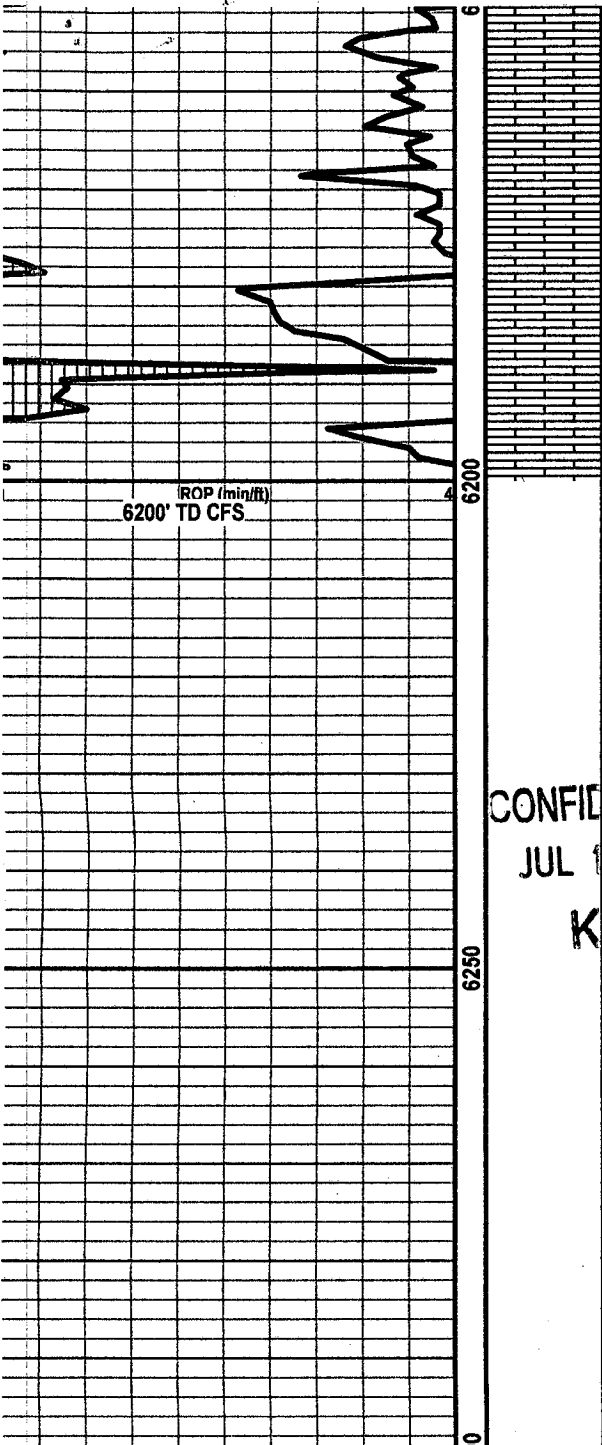
LS: Lt to med brn bf tan f xln sbchky cln v sndy
ool foss tt no show

LS: Brn tan bf f xln hd dns sil chky & sft ip sndy
foss cln tt no show

DOL: Dk brn c xln suc to gran ip hd brit exc vug
& intxln por dk brn mtx o stn dk goldbrn hydc
flor(50% spl) exc flash cut hvy blk live o exc
show

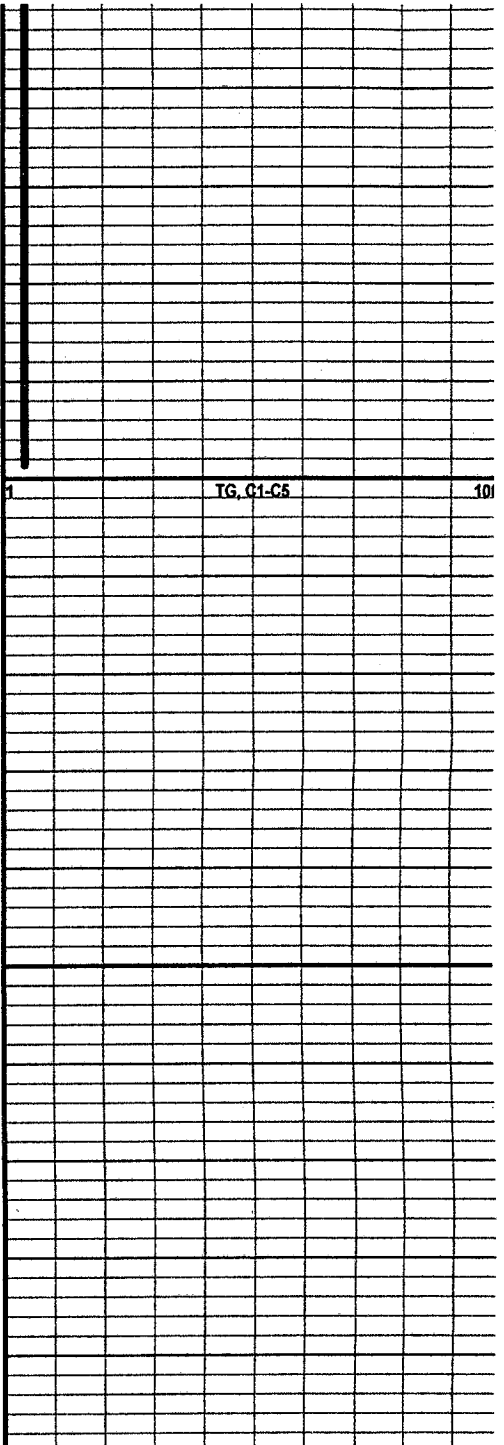
LS: Med mot brn gy bf lt brn oomicr f xln sbchky
v sndy & ool cln p vis por no show





LS: Lt brn bf wh sft chky ip cin v ool & sndy foss
 p vis por no flor no stn or cut

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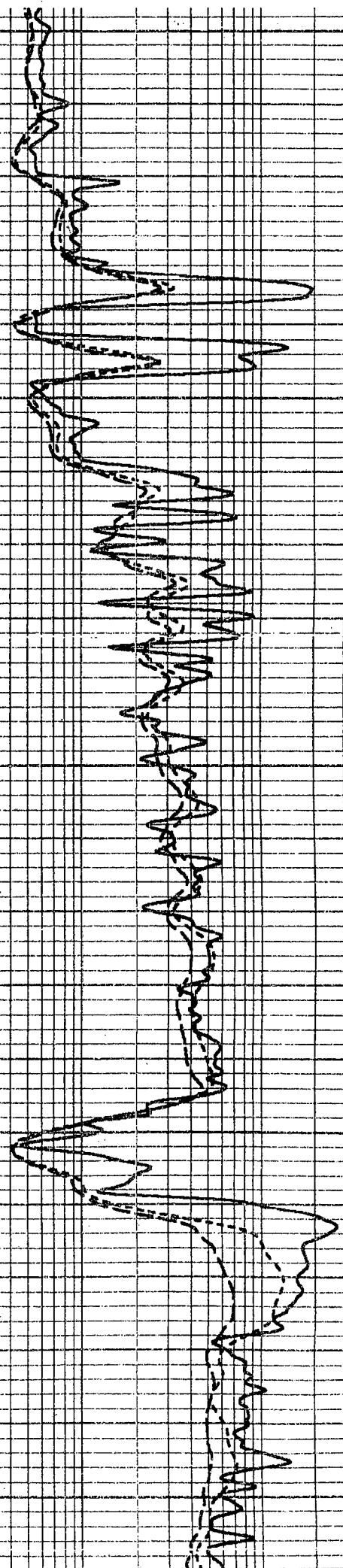
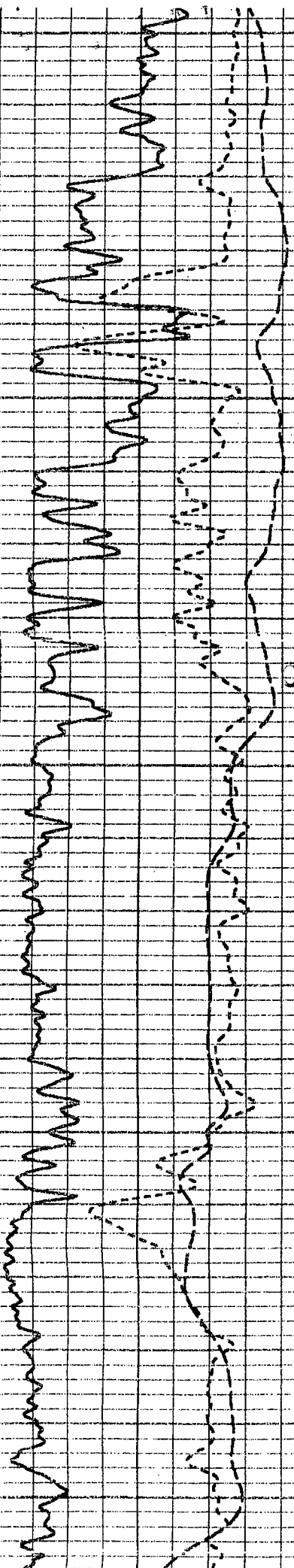
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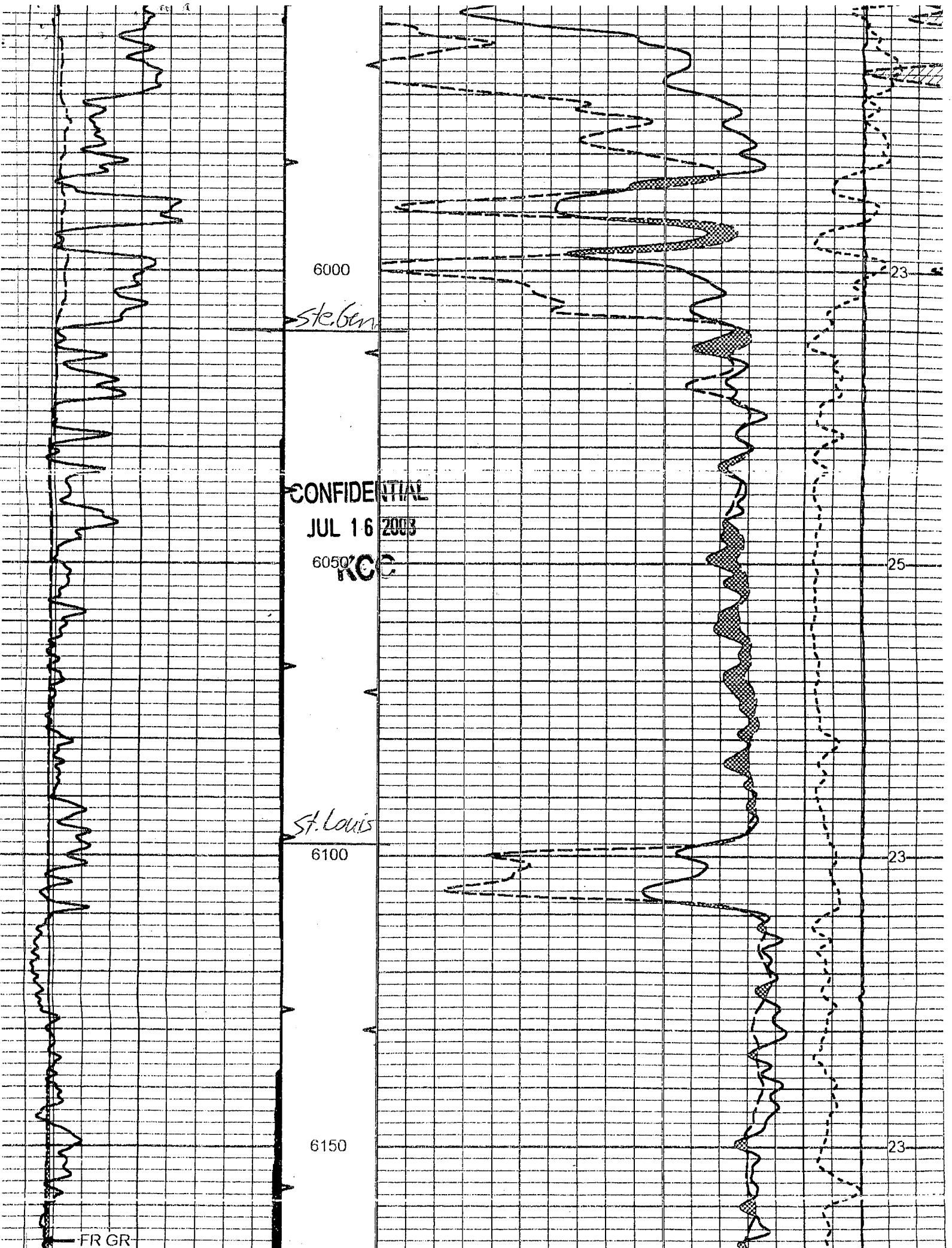
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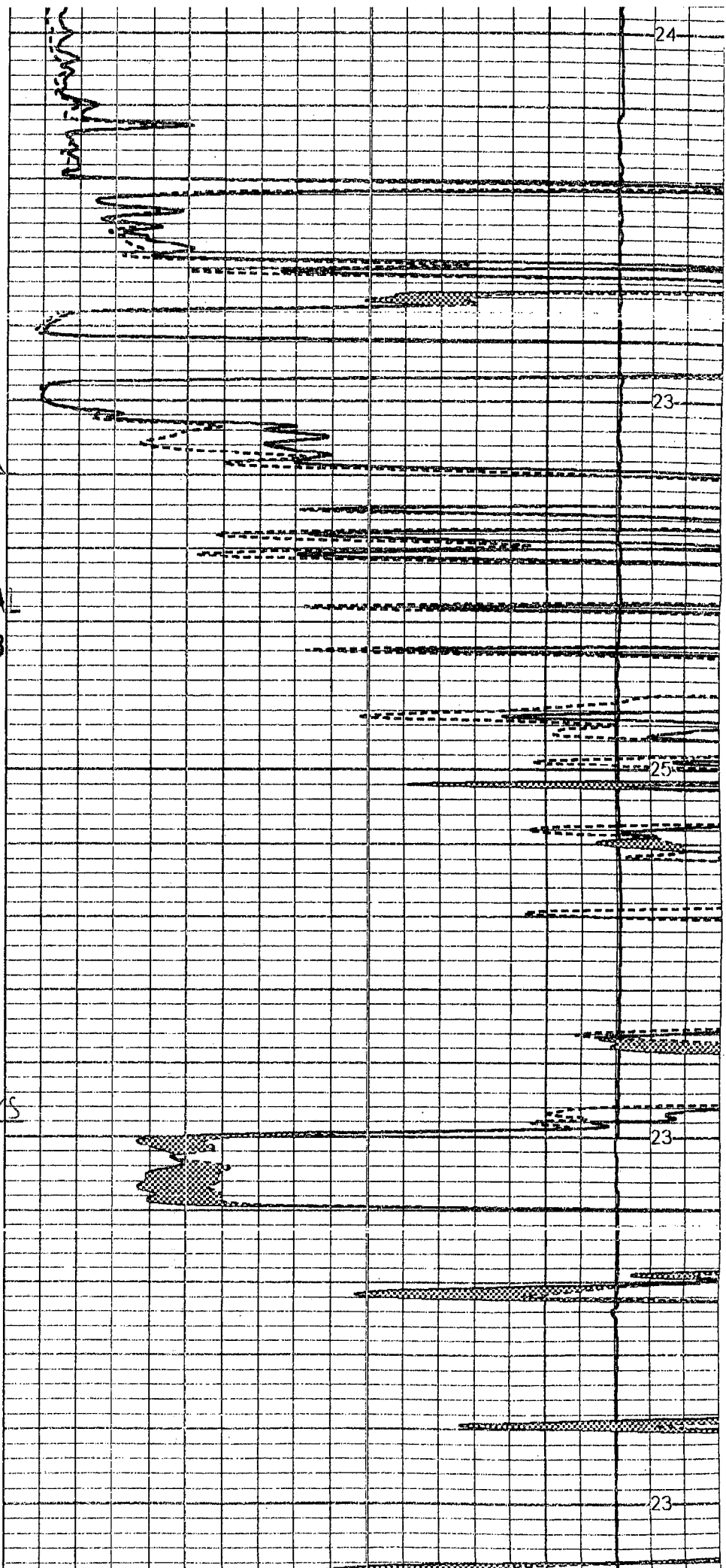
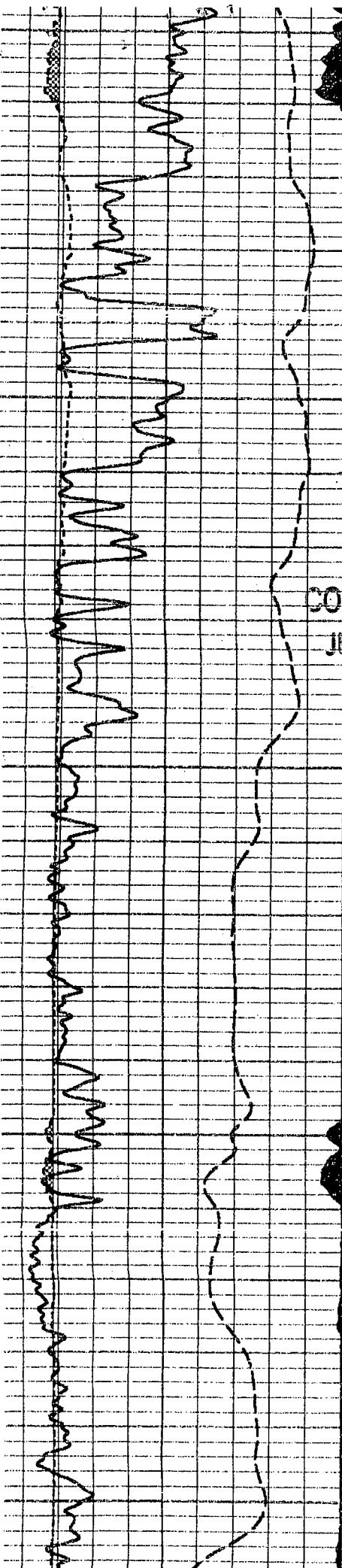
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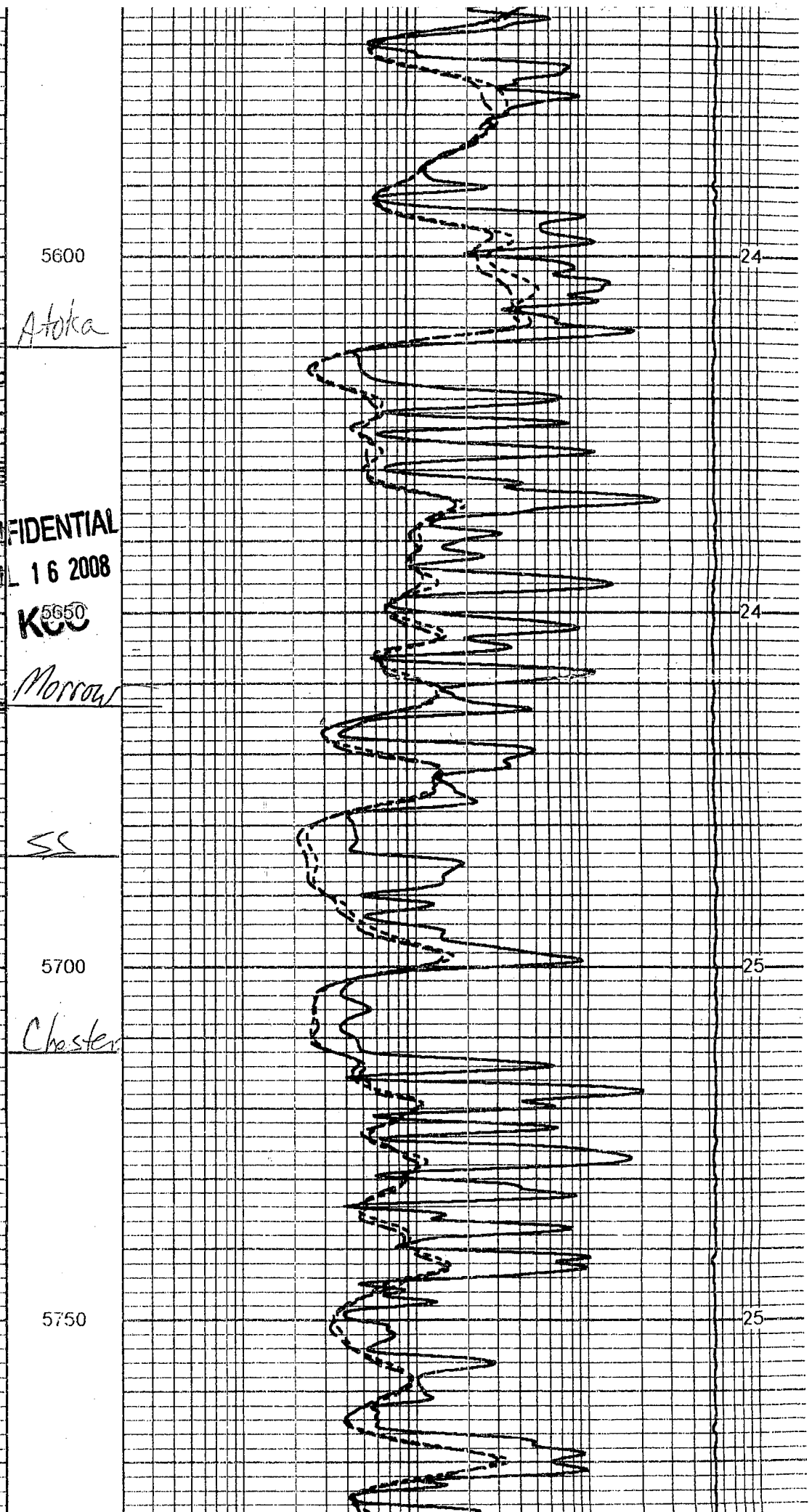
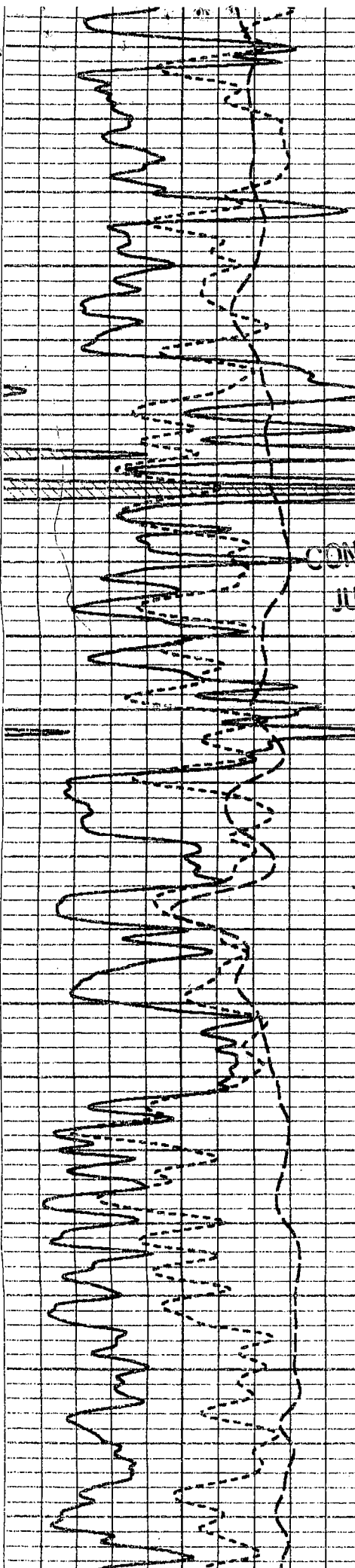
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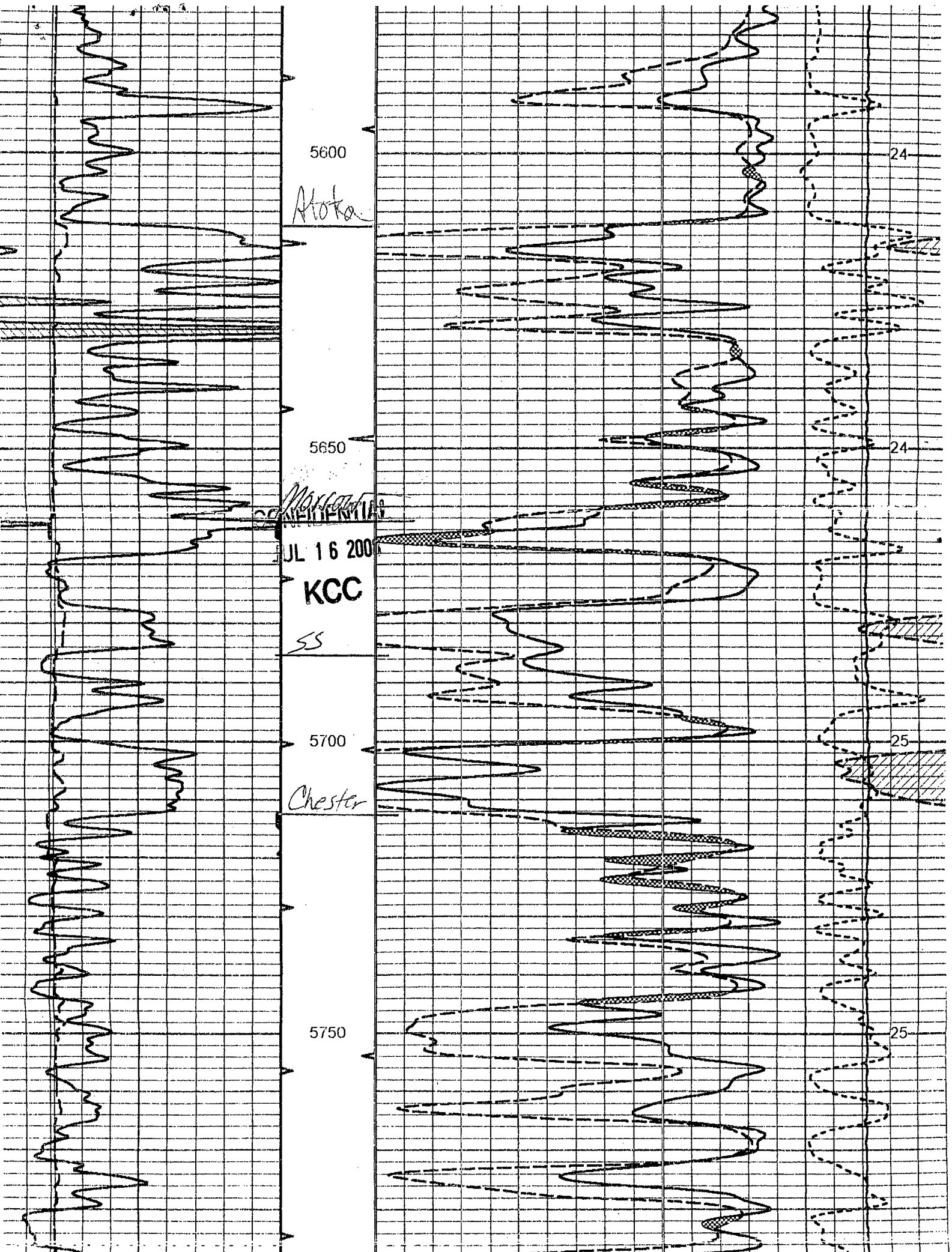
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