

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

9/10/08

Operator: License # 32211
 Name: O'Brien Energy Resources Corp.
 Address: 18 Congress Street, Suite 207
 City/State/Zip: Portsmouth, NH 03801
 Purchaser: _____
 Operator Contact Person: Joseph Forma
 Phone: (603) 427-2099
 Contractor: Name: Duke Drilling Co. Inc. **KCC**
 License: 5929
 Wellsite Geologist: Peter Debenham **SEP 10 2008**
 Designate Type of Completion: **CONFIDENTIAL**
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW **CONFIDENTIAL**
 Dry Other (Core, WSW, Expl., Cathodic, etc)
 If Workover/Re-entry: Old Well Info as follows **SEP 10 2008**
 Operator: _____ **KCC**
 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. _____
 Spud Date or Recompletion Date: 8-30-2008 Date Reached TD: 8-10-2008 Completion Date or Recompletion Date: 8-16-2008

API No. 15 - 119-21211-00-00
 County: Meade
SE SE SW/4 Sec. 34 Twp. 32 S. R. 29 East West
610' feet from S N (circle one) Line of Section
2970' 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 #: 2-34
 Field Name: UNNAMED
 Producing Formation: MORROW SANDSTONE
 Elevation: Ground: 2650' Kelly Bushing: 2662'
 Total Depth: 6200 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at 1579' 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 **Alt I NH 11-2408**
 (Data must be collected from the Reserve Pit)
 Chloride content 3500 ppm Fluid volume 3 bbls
 Dewatering method used HAUL FREE WATER, NATURAL EVAP. COVER W/ 36 INCH MINIMUM
 Location of fluid disposal if hauled offsite: _____
 Operator Name: DRILL CO. FLUID SERVICE
 Lease Name: FELDMAN 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: 9/10/2008

Subscribed and sworn to before me this 12 day of September

20 08
 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
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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SEP 17 2008

Operator Name: O'Brien Energy Resources Corp. Lease Name: BORCHERS Well #: 2-34
 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 DENSITY LITH. DENSITY, MICROLOGS	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table border="0"> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Heebner</td> <td>4422'</td> <td>-1760</td> </tr> <tr> <td>Toronto</td> <td>4442'</td> <td>-1780</td> </tr> <tr> <td>Marmaton</td> <td>5193'</td> <td>-2531</td> </tr> <tr> <td>Morrow</td> <td>5664'</td> <td>-3002</td> </tr> <tr> <td>Morrow SS</td> <td>5676'</td> <td>-3014'</td> </tr> <tr> <td>Chester</td> <td>6699'</td> <td>-3037'</td> </tr> <tr> <td>St. Louis</td> <td>6101'</td> <td>-3439</td> </tr> </table>	Name	Top	Datum	Heebner	4422'	-1760	Toronto	4442'	-1780	Marmaton	5193'	-2531	Morrow	5664'	-3002	Morrow SS	5676'	-3014'	Chester	6699'	-3037'	St. Louis	6101'	-3439
Name	Top	Datum																							
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Morrow SS	5676'	-3014'																							
Chester	6699'	-3037'																							
St. Louis	6101'	-3439																							

CASING RECORD <input 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	8 5/8, J55	24/ft	1579'	AAZ	450 AND 200	450-ACON.200 CLASS A, 2%
Production	7 7/8	4 1/2, J55	10.5#	6108'	AAZ	160	

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

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 SPF	5676'-5686'		

TUBING RECORD		Size <u>2 3/8</u>	Set At <u>5621'</u>	Packer At <u>5625'</u>	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS
Date of First, Resumerd Production, SWD or Enhr.		Producing Method <input type="checkbox"/> Flowing <input 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	
	1	1374 MCF		1374-1		

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

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energy services, L.P.

1208
FIELD ORDER 20301

Subject to Correction

Date 7-31-08	Customer ID	Lease Borchers	Well # 2-34	Legal 34-32-29
O'Brien Energy Resources Corp		County McAde	State Ks	Station Liberal
		Depth	Formation	Shoe Joint 26'
		Casing 8 5/8"	Casing Depth 1580	TD
		Customer Representative R Pearson	Treater M. Cochran JRB	

AFE Number _____ PO Number _____
 Materials Received by **X Roger Pearson**

Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
Lib.	CL101	450sk	'A-con' Blend		8370.00
	CL100	200sk	Premium		3200.00
	CC109	1695lb	Calcium Chloride		1727.25
	CC102	153lb	Cello-flake		516.10
	CF105	1 ea	Top Plug	KCC	225.00
	CF153	1 ea	Guide Shoe	SEP 1 0 2008	380.00
	CF1453	1 ea	Insert	CONFIDENTIAL	280.00
	CF1903	1 ea	Basket		315.00
	CF1773	4 ea	Centralizer		580.00
	E101	75mi	Heavy Equipment Mileage		525.00
	CE240				
	CE240	650sk	Blending + Mixing Chrg.		910.00
	E113	7647mi	Bulk Delivery		1222.40
	CE202	1 ea	Depth Chrg 1001-2000'		1500.00
	E100	25mi	Pick-up Mileage		106.25
	S003	1 ea	Service Supervisor		175.00
Lib.	CE504	1 ea	Plug Container		250.00
Discounted Total					#16215.60
PLUS TAX					

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TOTAL

Customer <i>O'Brien Energy Resources</i>	Lease No. <i>111234</i>	Date <i>7-31-08</i>	
Lease <i>Borchers</i>	Well # <i>234</i>		
Field Order # <i>20301</i>	Station <i>Liberal</i>	Casing <i>8 5/8</i>	Depth <i>1580</i>
Type Job <i>8 5/8 Surface</i>	Formation <i>UNW</i>	County <i>Madison</i>	State <i>Ks</i>
		Legal Description <i>39-32-08</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS #	ISIP
		<i>450 sk</i>		<i>A-con Blend</i>	<i>3%</i>	<i>19</i>	<i>11/16</i>
Depth	Depth	From	To	Pre Pad	Max		5 Min.
		<i>2.43</i>	<i>3/5</i>	<i>14.41 gal</i>	<i>12.2</i>		
Volume	Volume	From	To	Pad	Min		10 Min.
		<i>200</i>	<i>5</i>	<i>200 EC</i>	<i>1/4</i>		
Max Press	Max Press	From	To	Frac	Avg		15 Min.
		<i>1.3</i>	<i>3/5</i>	<i>6.33 gal</i>	<i>15</i>		
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>R. Pearson</i>	Station Manager <i>J. Bennett</i>	Treater <i>M. Cochran</i>
Service Units <i>21755</i>	<i>14355</i>	<i>19553</i>
Driver Names <i>Coparth</i>	<i>D. M. Culley</i>	<i>C. Rodriguez</i>
	<i>R. Martinez</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>15:00</i>					<i>on Loc. / Held Safety Meeting</i>
<i>17:45</i>					<i>START Pasing</i>
<i>19:35</i>					<i>Casing on Bottom / Cir. w/ Rig</i>
<i>19:57</i>	<i>3000</i>				<i>Test Pump + Lines</i>
<i>20:06</i>	<i>200</i>		<i>195</i>	<i>6</i>	<i>Start Lead Cmt 450sk @ 12.2#</i>
<i>20:39</i>	<i>250</i>		<i>47</i>	<i>3</i>	<i>Start Tail Cmt 200sk @ 15#</i>
<i>21:10</i>					<i>Shutdown + Drop Plug</i>
<i>21:14</i>	<i>200</i>		<i>0</i>	<i>5</i>	<i>Start Disp. w/ Fresh H₂O</i>
<i>21:33</i>	<i>600</i>		<i>90</i>	<i>2.5</i>	<i>slow Rate</i>
<i>21:36</i>	<i>1300</i>		<i>99</i>	<i>2.5</i>	<i>Bump Plug</i>
<i>21:37</i>	<i>0</i>		<i>99</i>	<i>0</i>	<i>Release / Plat Held</i>
<i>21:45</i>					<i>End Job</i>
	<i>700</i>				<i>Pressure Before Plug landed</i>
					<i>Circulated Cmt to the Pit</i>

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energy services, L.P.

FIELD ORDER 18726

Subject to Correction

Date	8-10-08	Customer ID	Lease	BORCHERS	Well #	2-34	Legal	34-32-29
C H A R G E	DBRIEW ENERGY		County	MEADE	State	KS.	Station	PRATT
	Depth		Formation		Shoe Joint		42'	
	Casing	4 1/2	Casing Depth	6110	TD	6200	Job Type	PNW-L.S.
	Customer Representative	ROGER PEARSON		Treater	BOBBY DRAKE			

AFE Number	PO Number	Materials Received by	X Roger Pearson	DLS
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Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
P	CP105	185 sk.	AA2	-	3367 ⁰⁰
P	CC107	44 lb.	CAF 38 DEFOAMER	KCC	308 ⁰⁰
P	CC111	957 lb.	SALT (FINE)	SEP 10 2008	478 ⁵⁰
P	CC124	105 lb.	FLA-115	CONFIDENTIAL	1575 ⁰⁰
P	CC201	925 lb.	GILSONITE	-	619 ⁷⁵
P	C706	10 gal.	CC-1, KCL SUBSTITUTE	-	440 ⁰⁰
P	CC155	500 gal.	SUPER FLUSH II	-	765 ⁰⁰
PL	CF102	1 ea.	TOP RUBBER CEMENT PLUG, 4 1/2"	-	80 ⁰⁰
PL	CF250	1 ea.	GUIDE SHOE - REGULAR, 4 1/2" (BLUE)	-	225 ⁰⁰
PL	CF500	1 ea.	STOP RING, 4 1/2"	-	30 ⁰⁰
PL	CF1451	1 ea.	FLAPPER TYPE INSERT FLOAT VALVE, 4 1/2"	-	200 ⁰⁰
PL	CF1770	8 ea.	CENTRALIZER, 4 1/2" x 7 7/8"	-	880 ⁰⁰
P	E701	50 ml.	HAZARD EQUIPMENT MITIGATION	-	350 ⁰⁰
P	E713	218 hrs.	BULK DELIVERY	-	348 ⁸⁰
P	E700	25 sk.	PICKUP MILEAGE	-	106 ²⁵
P	CE240	185 sk.	BLENDING & MIXING SERVICE CHARGE	-	259 ⁰⁰
P	S003	1 ea.	SERVICE SUPERVISOR	-	175 ⁰⁰
P	CE207	1 ea.	DEPTH CHARGE, 6001' - 7000'	-	3240 ⁰⁰
P	CE504	1 ea.	PLUG CONTAINER	-	250 ⁰⁰

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DISCOUNTED PRICE - \$10,957⁸⁴

Customer OBRIEN ENERGY		Lease No.		Date 8-10-08	
Lease BORCHERS		Well # 2-34			
Field Order # 13726	Station PRATT	Casing 4 1/2	Depth 6110	County MEYER	State KS
Type Job RNW-1.5			Formation	Legal Description 34-32-29	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid 145 gal AAZ	RATE	PRESS	ISIP
Depth 6110	Depth	From	To	Pre Pad 1.44 ft³	Max		5 Min.
Volume 97	Volume	From	To	Pad	Min		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 6068	Packer Depth	From	To	Flush 96.5 Bbl.	Gas Volume		Total Load

Customer Representative ROGER PATRISON			Station Manager SCOTTY			Treater BOBBY		
Service Units	19966	19959	19832					
Driver Names	DRAKE	MELSON	LACHANCE					

Time	Casing Pressure	Tubing Pressure	Bbls: Pumped	Rate	Service Log
0915					ON LOCATION - SAFETY MEETING
1030					Run 145 lbs 10.5" - Cont. S.J. 3, 6, 10, 11, 12, 14, 16
1400					CSG ON BOTTOM
1410					HOOK UP TO CSG - BACK CIRC. W/ P.I.B
1500	200		12	5.0	SURFLUSH II
1503	300		3	5.0	H2O SPACER
1504	300		42	16.0	MIX CONT. @ 15.0#/GAL
1510					RELEASE PLUG - CLEAR PUMP & LINES
1512	100		1	16.0	START DISP @ 2% KCM
1525	300		74	5.7	LIFT PRESSURE
1530	1500		96.5		PLUG DOWN
1536			7		PLUG RAT & MOUSE HOLS
					CIRCULATION TRIAL JOB
					JOB COMPLETE
					THANKS BOBBY & CREW

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O'Brien Energy Resources, Inc.

Borchers No. 2-34

Section 34, T32S, R29W

Meade County, Kansas

July, 2008

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Well Summary

The O'Brien Energy Resources, Corporation, Borchers No. 2-34 was drilled as a wildcat to a total depth of 6200' in the St. Louis Formation. Lost circulation occurred at 5208'(100 bbls). Appreciation to Duke Drilling Rig 10 hands.

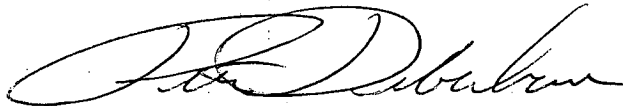
The Borchers No. 2-34 offset the Borchers No. 1-34 by 1900' to the West. Formation tops from the Heebner to the Cherokee ran 12' to 16' high relative to this offset. The Atoka and Morrow came in 7' high. A Morrow Sandstone with excellent hydrocarbon show came in 16' high. The Chester, Ste. Genevieve and St. Louis ran 21', 11' and 5' high respectively.

The Morrow Sandstone(5676'-5687') consists of a Sandstone in up to 30% of the samples – White, light brown, clear, speckled green, friable, fine lower to fine upper, well sorted subround grains, calcite cement, clean, glauconitic, pyritic in part, excellent intergranular and trace vuggy porosity, very pale blue hydrocarbon fluorescence, faint cut, no stain. A 600 Unit gas increase occurred on the hotwire.

Weak shows occurred in the Cherokee. A minor show with traces of formation gas documented in the Lower Chester Formation.

4 ½" production casing was run on the Borchers No. 2-34 on 8/10/08 for Morrow gas production.

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. 2-34, Wildcat

Location: 660' FSL & 2970' FEL, Section 34, T32S, R29W, Meade County, Kansas – 8 miles East of Plains.

Elevation: Ground Level 2650', Kelly Bushing 2662'

Contractor: Duke Drilling Rig No. 10, Type: Tripple jackknife, double stand, Toolpusher Terry Sorter, Drillers: Brandon Williams, Pace Harmon, Mike Medina

Company Man: Roger Pearson – Liberal, Kansas

Spud Date: 7/28/08

Total Depth: 8/9/08, Driller 6200', Logger 6193', St. Louis Fm.

Casing Program: 38 joints of 8 5/8", J55, 24Lbs/ft, set at 1577'. 4 1/2" production casing.

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 Tim Martin, 1)Dual Induction 2) Compensated Neutron Litho Density 3) Microlog

Status: 4 1/2 " production casing to TD on 8/10/08.

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WELL CHRONOLOGY

6 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
7/28-29			Move to location and rig up rotary tools. Work on light plant. Mix spud mud. Drill rat and mousehole. Spud in 12 1/4" surface hole to 500'.
7/30	1272'	772'	Surveys(1 deg.). Work on pump and rig repairs. Drill to 1272' and trip out to work on pump. Trip in.
7/31	1582'	310'	To 1400' and work on pump. Trip out and work on pump and weld mudline. Trip in and drill 1582' and circulate and condition mud. Drop survey(1 1/4 deg) and trip for surface casing. Rig up casing crew and run 38 joints of 8 5/8" set at 1577'. Rig up cementers and cement. Plug down 9:45 PM. Wait on cement.
8/1	2115'	533'	Lay down landing joint. Nipple up 8 5/8" and BOP and wait on cement. Trip in and drill 7 7/8" hole to 2115'. Service rig and clean suction. Survey(1 deg.). Work on liner on main pump and hook load sensor.
8/2	2452'	337'	To 2184' and trip to collars and work on pump. Trip in and drill to 2452'. Trip to surface casing and change out mud pump and replace 2 nd gear chain and trip in.
8/3	3083'	631'	Trip in and drill to 3083' and trip out 16 stands and work on swivel. Survey(1 1/2 deg.).
8/4	3770'	687'	Trip to shoe and change out swivel. Service rig. Trip in and drill to 3770'. Grease swivel and work on air line.
8/5	4335'	565'	Rig service and grease swivel. Drill to 4103' and trip for Bit No. 3. Drill to 4335' and drilling ahead.
8/6	5140'	805'	Drilling ahead. Service rig and grease swivel.
8/7	5555'	415'	Work on pump and build volume. Lost circulation at 5208'(100 bbls). To 5280' and trip out and work on drawworks. Drill to 5555'. Clean suction.
8/8	6115'	560'	To 5710' and circulate for samples. To 6115' and drilling.
8/9	6200'TD	85'	Drill to 6200'TD and circulate. Short trip 20 stands and circulate and condition mud. Drop survey(1 3/4 deg.) and trip for logs and run elogs. Logs down 1:15 pm. Trip in and circulate. Trip out laying down.
8/10	TD		Run and cement 4 1/2" production casing.

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BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	HTC	S/N 5120697	12 1/4"	1582'	1582'	29
2	HTC	HC-5062	7 7/8"	4102'	2521'	66 3/4
3	HTC	HC-5062	7 7/8"	6200'	3679'	80 1/2

Total Rotating Hours: 176 1/4
Average: 35.2 Ft/hr

DEVIATION RECORD - degree

1272' 1, 1582' 1 1/4, 2115' 1, 3083' 1 1/2, 6200' 1 3/4

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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>	
7/31	1400'	Make up water							100	
8/2	2391'	9.4	29			7.0	n/c	61K	tr	
8/5	4063'	9.1	35	7	11	8.0	24.8	14K	3	
8/6	4768'	9.1	45	14	15	10.5	9.2	4K	5	
8/7	5280'	9.0	56	15	20	11.0	8.8	3.5K	6	
8/8	5855'	9.1	43	10	13	10.0	11.2	5K	5	
8/9	6200'	9.1	52	15	20	10.0	9.6	3.5K	6	

ELECTRIC LOG FORMATION TOPS- KB Elev. 2662'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Borchers No. 1-34</u>	
			<u>DATUM</u>	<u>POSITION</u>
Heebner	4422'	-1760'	-1774'	+14'
Toronto	4442'	-1780'	-1796'	+16'
Lansing	4561'	-1899'	-1912'	+13'
Marmaton	5193'	-2531'	-2540'	+9'
Cherokee	5367'	-2705'	-2717'	+12'
Atoka	5612'	-2950'	-2958'	+8'
Morrow	5664'	-3002'	-3009'	+7'
Morrow SS	5676'	-3014'	-3030'	+16'
Chester	5699'	-3037'	-3058'	+21'
Ste. Genevieve	6007'	-3345'	-3356'	+11'
St. Louis	6101'	-3439'	-3444'	+5'
TD	6200'	-3538'		

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*Obrien Energy Resources, Borchers No. 1-34, Borchers North Field, 330'FSL & 1110'FEL, Section 34 – approximatley 1900' to the East, KB Elevation 2654'

LITHOLOGY DESCRIPTION

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

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Gas and Spls run 3000' - No shows

4230-4300 LIMESTONE: Dk mottled brown gray black micr crpxln hard dense marly tight no show interbed with SHALE: Blk dark brown hard blocky carbonaceous calcareous

4300-4380 SHALE: Blk dark brown to gray firm blocky carbonaceous calcareous silty

4380-4425 LIMESTONE: Mot brown light gray biomicr fine crystalline hard dense argillaceous to marly fossils tight no show interbed with SHALE: Blk very dark brown hard sbfis to blocky very carbonaceous

4425-4445 SHALE: Blk very dark brown hard sbfis to blocky very carbonaceous

Heebner 4422', Toronto 4442'

4445-4465 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

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

Lansing 4561'

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

4680-4722 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

4722-4804 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

4804-4830 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

4830-4855 LIMESTONE: Brn oomicr fine crystalline brittle clean very oolites with exc oomoldic porosity no show

4855-4935 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

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

5170-5190 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 5193'

5190-5210 No Gas or Spls to lost circ.

5210-5220 LIMESTONE: Dk mottled brown micr crpxln hard dense argillaceous to marly silica in part tight no fluorescence no stain or cut with SHALE: as above

5220-5250 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

5305-5372 SHALE: Blk firm sbfis carbonaceous silty interbed with LIMESTONE: Lt brown buff micr micxln micsuc in part clean to argillaceous carbonaceous and coal incls fossils trace moldic and intxln porosity no fluorescence no stain or cut trace CHRT

Cherokee 5367'

5372-5405 SHALE: Dk mottled gray to brown black hard blocky carbonaceous silty with LIMESTONE: as above

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

5480-5500 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

5500-5545 LIMESTONE: Med brown micxln slightly sucrosic in part sbchky in part clean to argillaceous trace intxln porosity trace(<1% sample) bright yellow to pale blue hydrocarbon fluorescence faint cut trace oil stain weak show interbed with SHALE: as above

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5545-5594 LIMESTONE: Gy mottled brown micr fine crystalline sbchky in part argillaceous to marly fossils tight no show with SHALE: Blk dark brown firm fissile carbonaceous

5595-5615 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'

5615-5658 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

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5658-5666 SHALE: Blk firm fissile carbonaceous

Morrow 5664'

5666-5682 Tr SANDSTONE: Gy salt and pepper tan speck green hard dense slightly friable very fine well sorted grains ca cement clean/argillaceous in part mica glauconitic tight no show with SHALE: Blk gray to gygn hard fissile carbonaceous pyrite in part with free Pyr

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Morrow Sandstone 5676'

5682-5694 *SANDSTONE(30% sample): Wh light brown clear tan speck green salt and pepper friable fl/fu well sorted sbrnd grains ca cement clean glauconitic pyrite in part exc intgran and occasional vug porosity very pale blue hydrocarbon fluorescence faint cut no stain

5694-5718 SHALE: Dk gray black gygn firm fissile carbonaceous waxy

Chester 5699'

5718-5738 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

5738-5772 LIMESTONE: Lt mottled brown buff micxln chalky clean to argillaceous carbonaceous mineral fluorescence no show poor vis porosity

5772-5800 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

5800-5816 SHALE: Gy gygn soft sbfis waxy

5816-5848 LIMESTONE: Med to light mottled brown orngbrn buff soft chalky brittle clean fossils tight no show with SHALE: as above

5848-5866 LIMESTONE: Med to light mottled brown orngbrn buff soft chalky brittle clean fossils tight no show

5866-5908 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 orngbrn 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

5960-5980 LIMESTONE: Mot brown micr fine crystalline chalky brittle clean fossils sndy glauconitic tight no fluorescence no stain or cut

5980-6000 *LIMESTONE: Mot brown gray buff medium to dark brown to redbrn biomicr fine crystalline dense sndy fossils poor vis porosity occasional moldic porosity trace dark mottled hydrocarbon fluorescence trace brown oil stain and live oil gd strmg cut weak show in small % of spls interbed with SHALE: Red to orange gray gygn maroon viol varic blocky waxy sndy

Ste. Genevieve 6007'

6000-6034 LIMESTONE: Mot brown to gray micr fine crystalline dense sndy fossils oolites silica in part poor vis porosity no show with SHALE: Red to orngbrn gray gygn to medium green maroon varic in part firm blocky to sbfis waxy

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

6044-6090 LIMESTONE: Lt to medium brown buff tan fine crystalline sbchky clean very sndy oolites fossils tight no show interbed with SHALE: Red to orngbrn gray gygn to medium green maroon varic in part firm blocky to sbfis waxy

St. Louis 6101'

6089-6110 LIMESTONE: Brn tan buff fine crystalline hard dense silica chalky and soft in part sndy fossils clean tight no 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: O'Brien Energy, Borchers No. 2-34
Location: 660'FSL & 2970'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: 660'FSL & 2970'FEL, Section 34, 32S, R29W, Meade Co., KS
Bottom Hole Coordinates: 660'FSL & 2970'FEL, Section 34, 32S, R29W, Meade Co., KS
Ground Elevation (ft): 2650' K.B. Elevation (ft): 2661'
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: O'Brien Energy Resources, Corp.
Address: 18 Congress St., Suite 207
Portsmouth, NH 03801
President/Owner John Forma, Geologist Paul Wiemann

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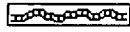
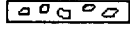
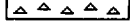
GEOLOGIST



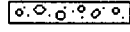
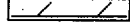
Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

Comments

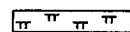
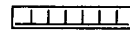
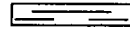

Engineer Roger Pearson, Duke Drilling Rig No. 10, T.P. Terry, Drillers Brandon Williams, Pace Harmon, Mike Medina, 38 joints of 8 5/8", J55, 24Lbs/ft, set at 1577'. 5 1/2" production casing to TD. Log-Tech, Service Mud/Mud Cp. engineer Jody Dietz,

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht

 Clyst
 Coal
 Congl
 Dol

 Gyp
 Igne
 Lmst
 Meta

 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Slstst
 Ss
 Till

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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
- Breclrag
- Calc
- Carb

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

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

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

- 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

SORTING

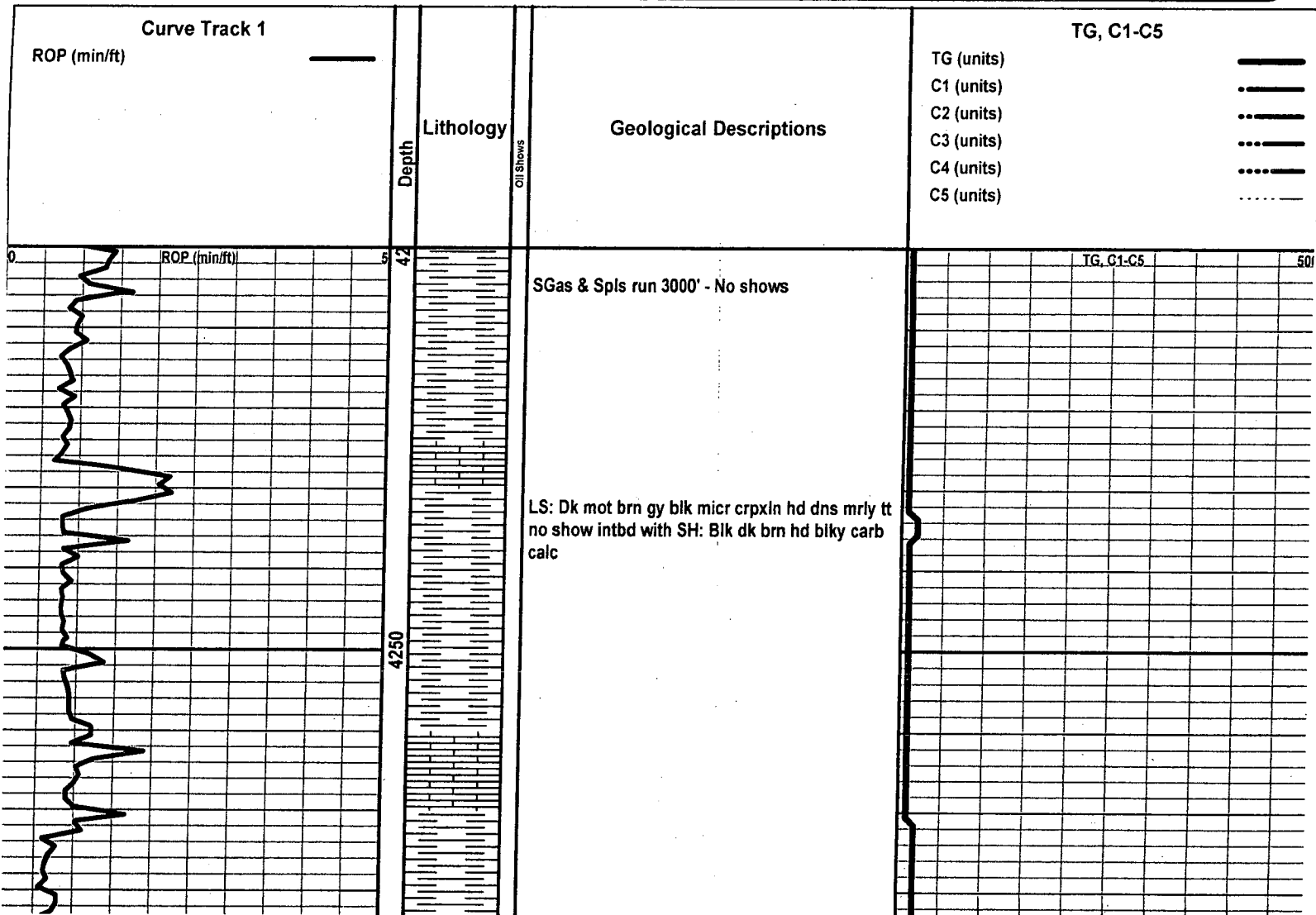
- Well
- Moderate
- Poor

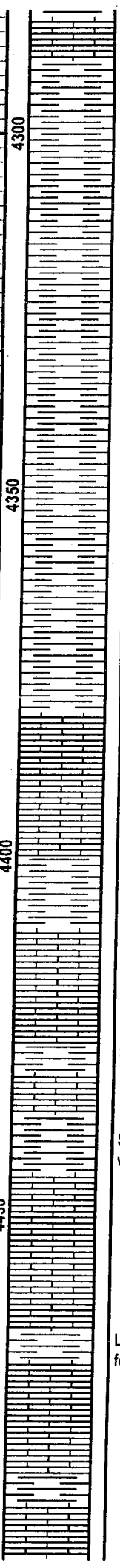
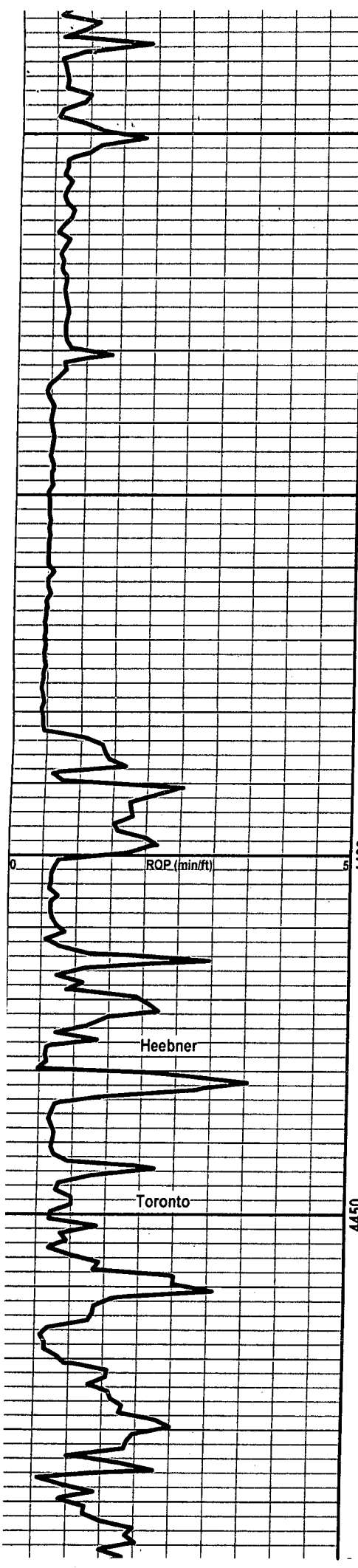
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead





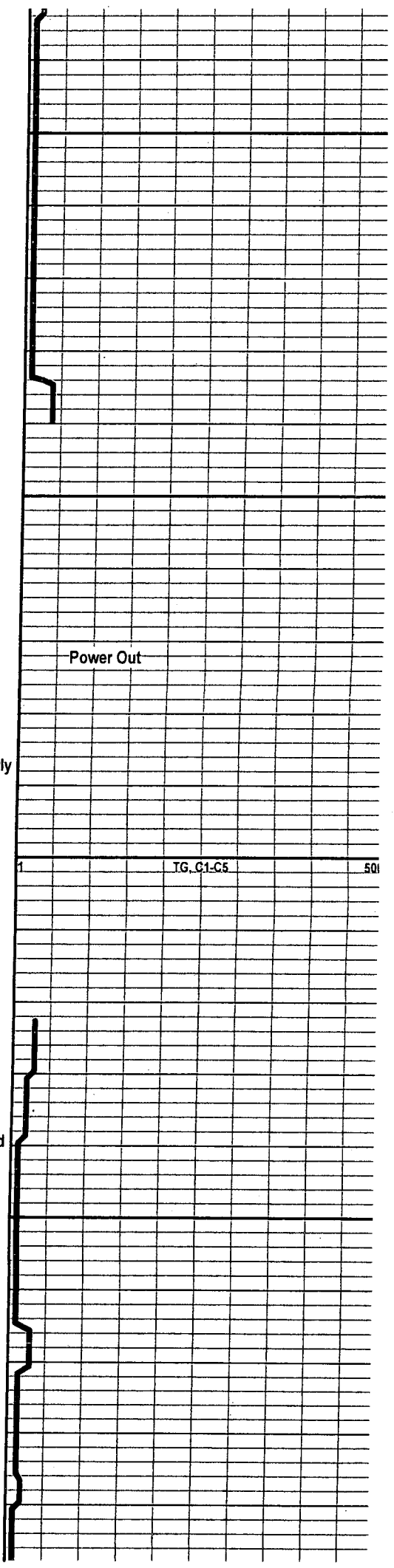
SH: Blk dk brn to gy frm blk carb calc slty

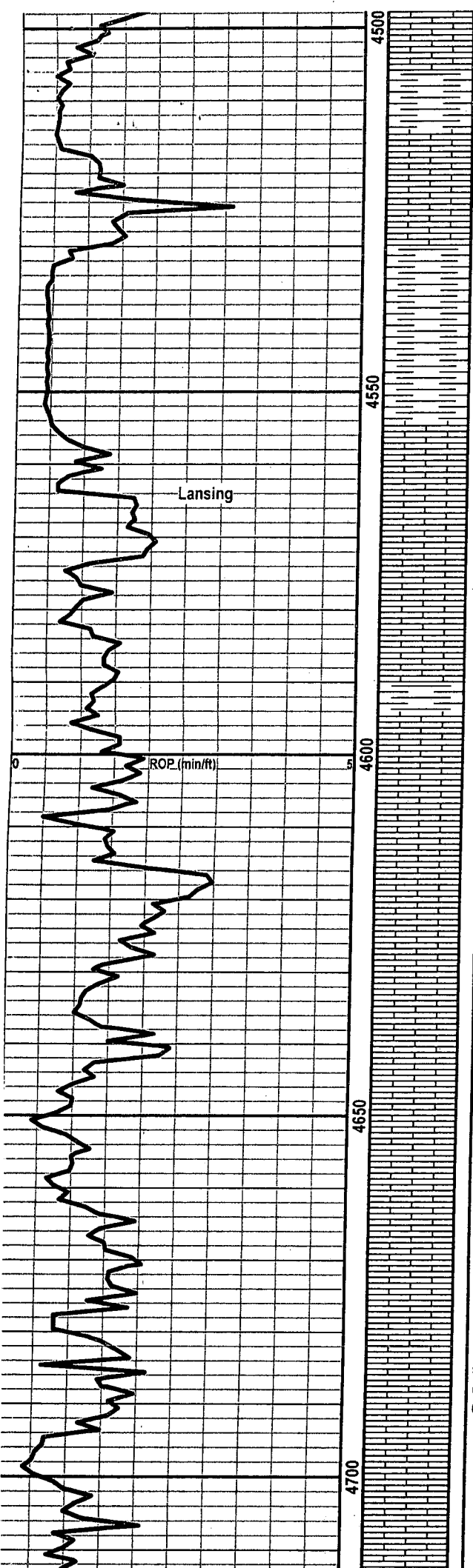
LS: Mot brn lt gy biomcr f xln hd dns arg to mrlly
foss tt no show intbd with SH: Blk v dk brn hd
sbfis to blk v carb

SH: Blk v dk brn hd sbfis to blk v carb

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

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





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

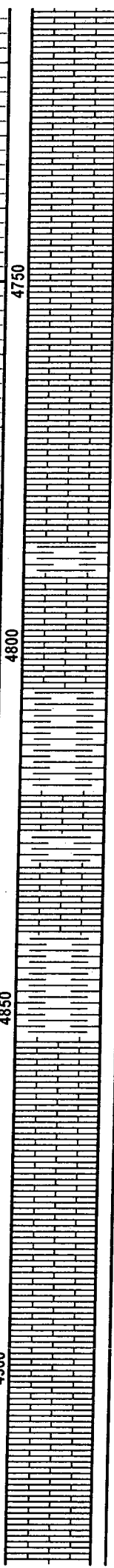
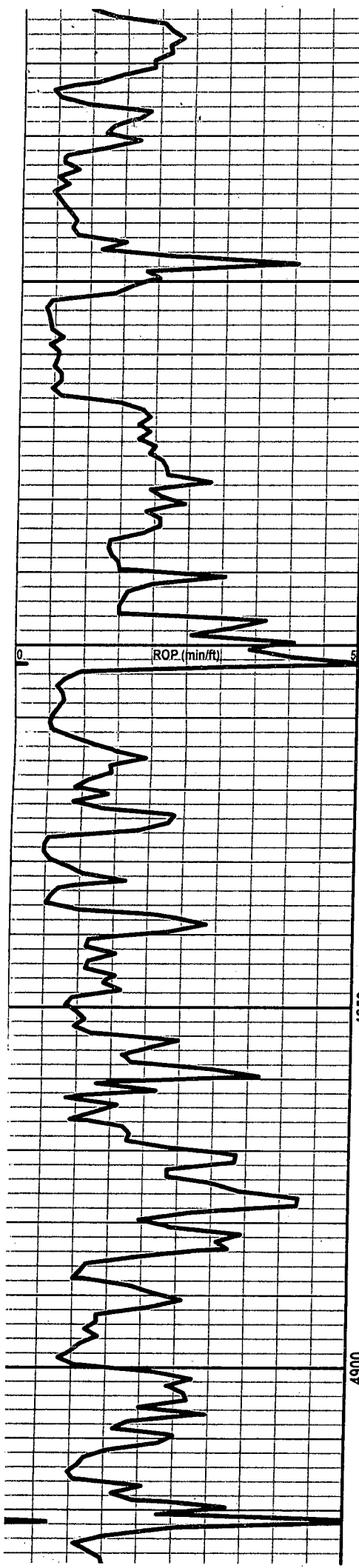
LS: Lt to med brn oomicr micxn suc ip cln brit
 foss ooc exc moldic por no flor no stn or cut

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

SH: Dk gy brn to blk ooc gygn hd bly carb calc
 slty ip intbd with LS: Mot brn gy biomicr f xln
 dns to exc moldic por no flor no stn or cut tr
 Chrt: Gy hd xln

TG, C1-C5

50



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

Dumped tanks - increased mud flow in spl trough

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

SH: Blk dk gy mot brn frm blk carb slty 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

TG, C1-C5

50

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 sil ip dns to tr moldic por no flor no stn or cut tr CHRT: Brn mltly wh to gy hd xln

LS: Lt to med mot brn bf f xln micsuc sbchky ip sil ip dns to tr moldic por no flor no stn or cut tr CHRT: Brn mltly wh to gy hd xln

Dumped tanks - increased mud flow
in spl trough

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

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

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

TG, G1-C5

50

SH: Blk frm sbfis to fis carb stly

90

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

SH: Dk brn blk hd sbfis carb sil ip with tr CHRT:
Blk dk brn mlky hd xln

60

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

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

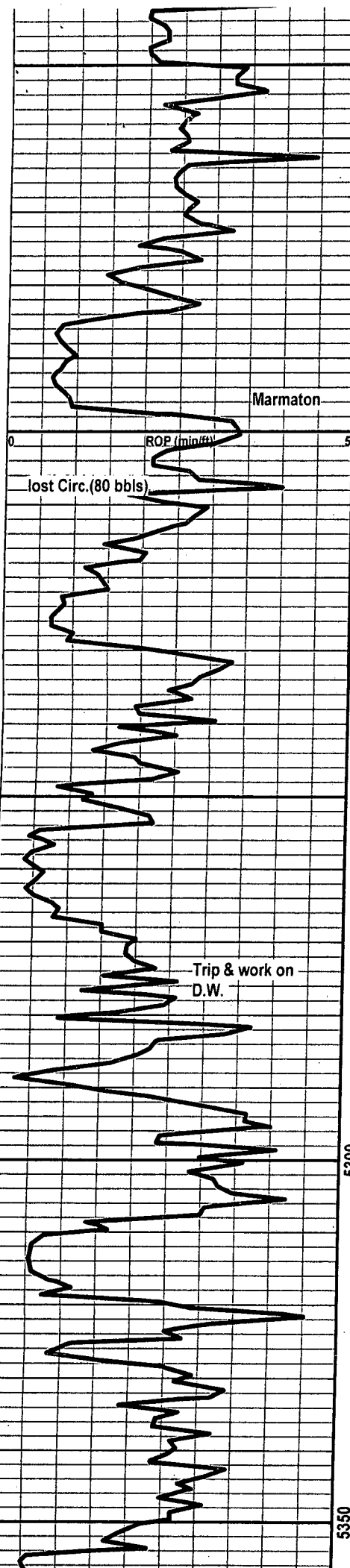
ROP (min/ft)

4950

5000

5050

5100



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

SH: Dk brn gy blkfrm sbfis to blk carb calc slty

No Gas or Spis - lost circ.

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

SH: Dk brn gy blkfrm sbfis to blk 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

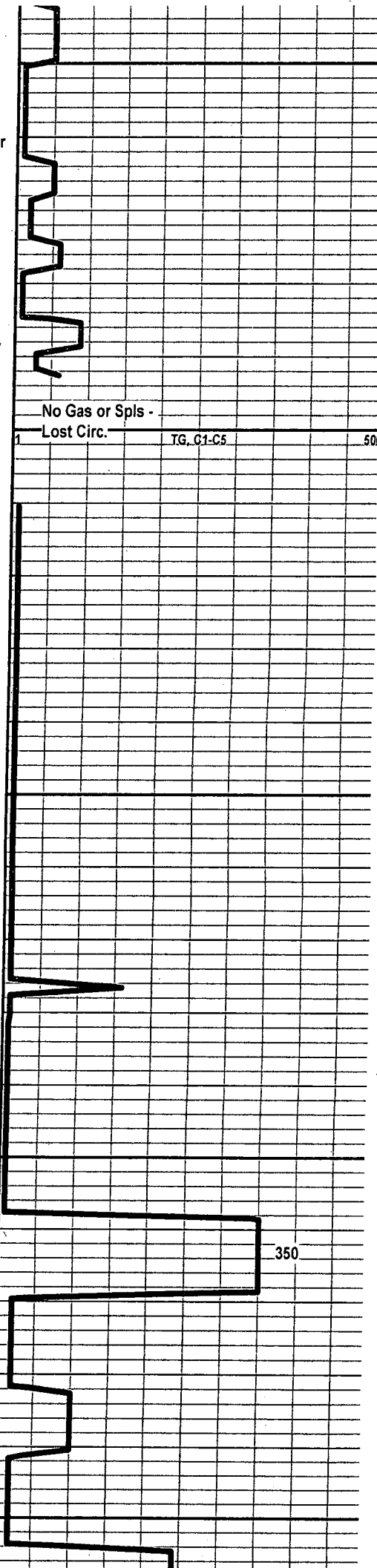
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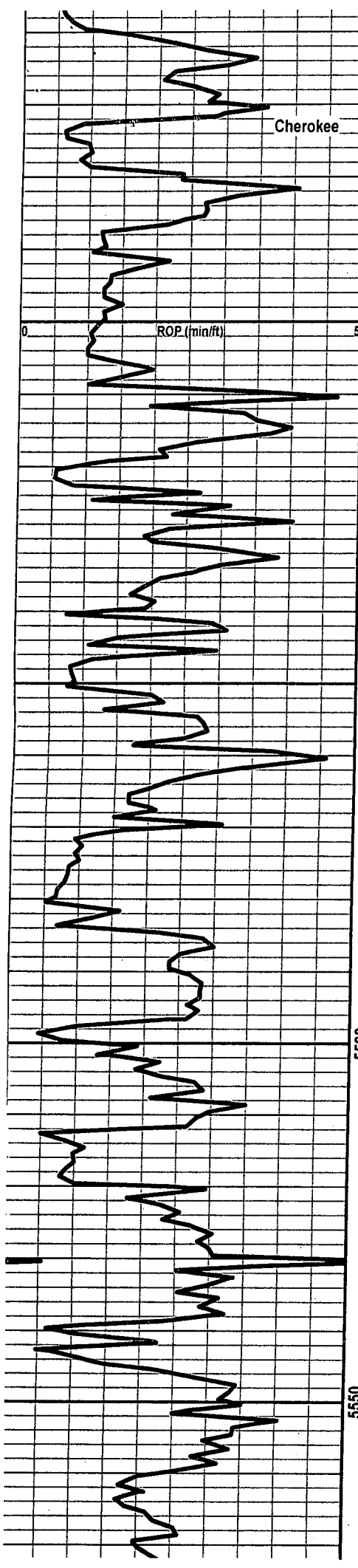
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SH: Blk frm sbfis carb slty intbd with LS: Lt brn bf micr micxln micsuc ip cln to arg carb & coal inclc foss tr moldic & intxln por no flor no stn or cut tr CHRT

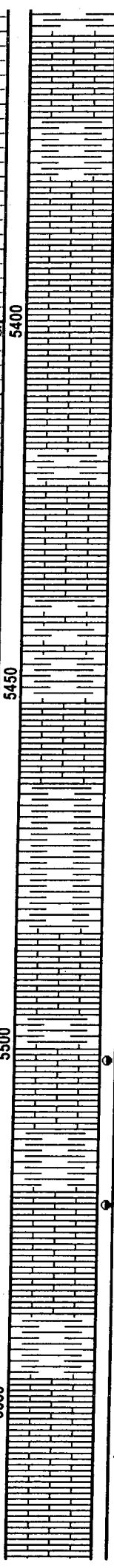
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SH: Blk frm sbfis carb slty intbd with LS: Lt brn





Cherokee



Dr micr micxln micsuc ip cin to arg carb & coal
incls foss tr moldic & intxln por no flor no stn or
cut tr CHRT

SH: Dk mot gy to brn blk hd blk carb slty with
LS: aa

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

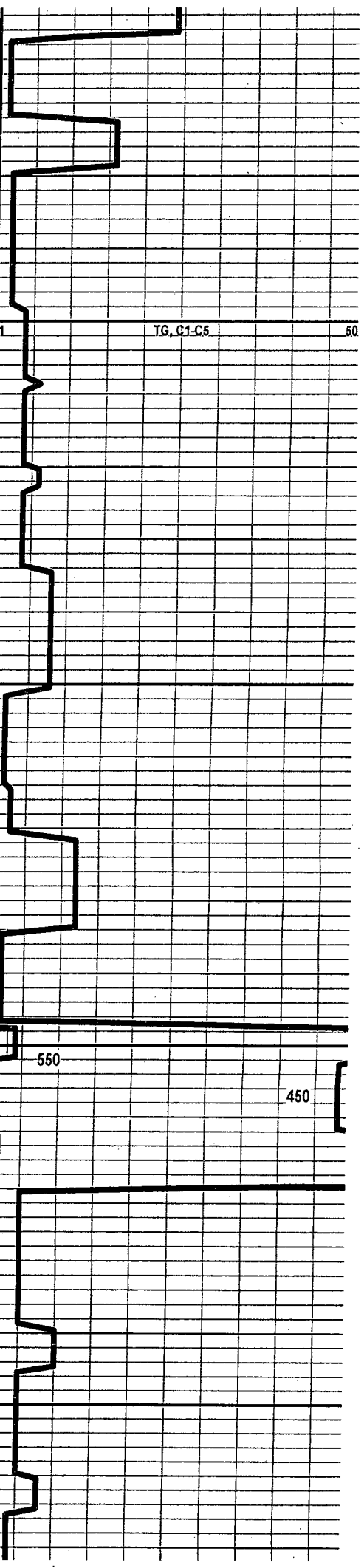
SH: Blk frm sbfis carb slty intbd with LS: Lt brn
bf micr micxln micsuc ip cin to arg carb & coal
incls foss tr moldic & intxln por no flor no stn or
cut tr CHRT

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

LS: Mot brn f xln dns sbchky ip arg slty 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 mlky
gy hd xln

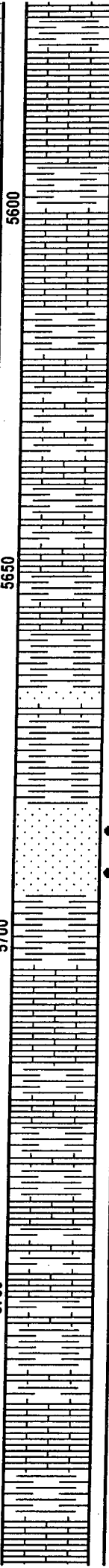
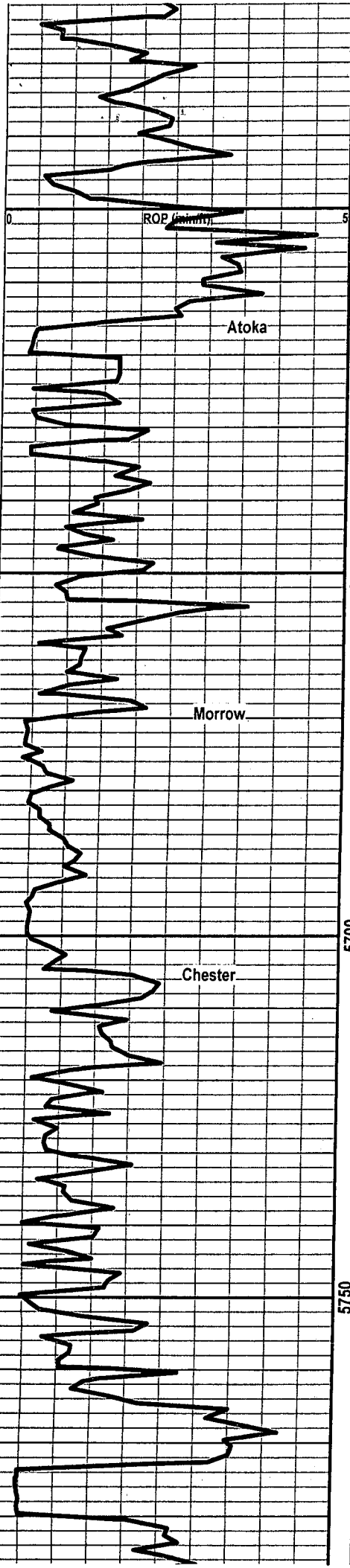
LS: Med brn micxln sl suc ip sbchky ip cin to arg
tr intxln por tr (<1% spl) bri yel to pale bl hydc
flor fnt cut tr o stn wk show intbd with SH: aa

LS: Gy mot brn micr f xln sbchky ip arg to mrly
foss tt no show with SH: Blk dk brn frm fis carb



550

450



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

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

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

SH: Blk frm fis carb

Tr SS: Gy s&p tan spec gn hd dns sl fri vf w srted grs ca cmt cln/arg ip mica glauc tt no show with SH: Blk gy to gygn hd fis carb pyr ip with free Pyr

SS(30% spl): Wh lt brn cir tan spec gn s&p fri fl/fu w srted sbrnd grs ca cmt cln glauc pyr ip gd intgran & occ vug por v pale bl hydc flor fnt cut no stn

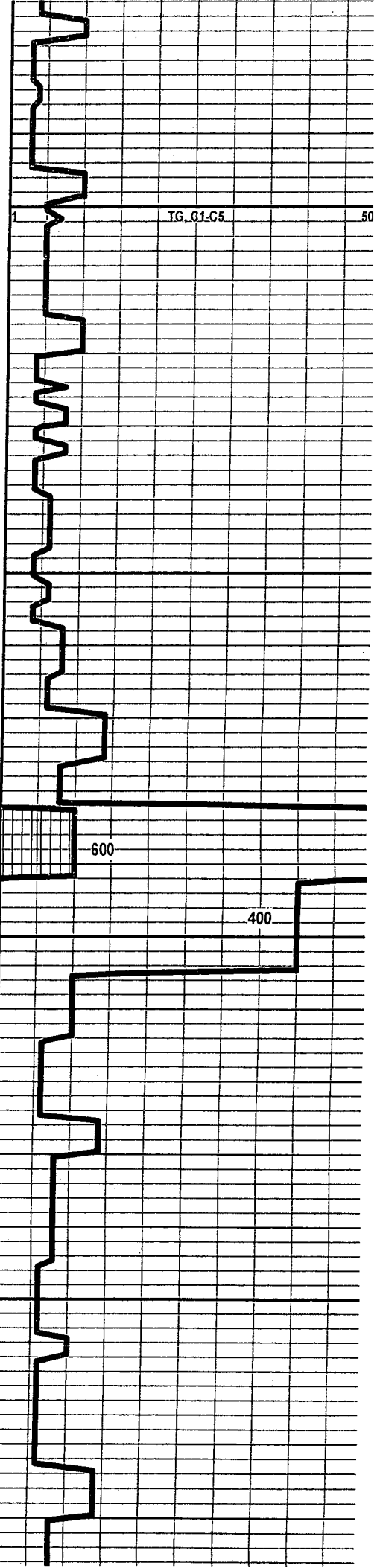
SH: Dk gy blk gygn frm fis carb wxy

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 mot brn bf micxln 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 org gy bf chky sft cln to arg foss p vis por no show

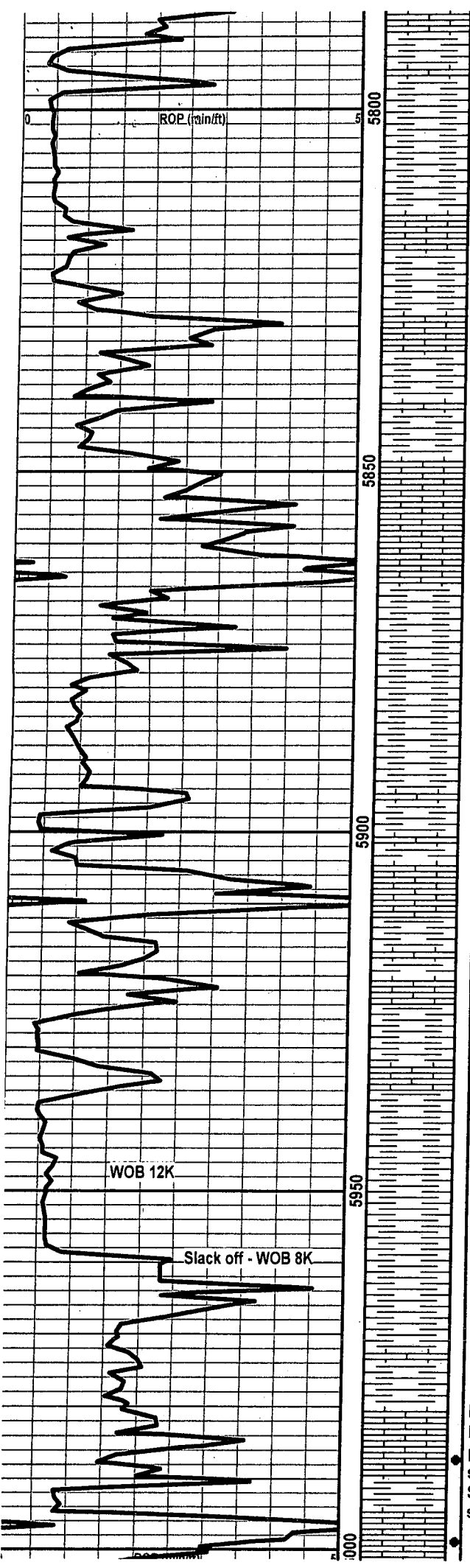


TG, C1-C5

50

600

400



SH: Gy gygn sft sbfis wxy

TG, C1-C5 275

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 blk y wxy

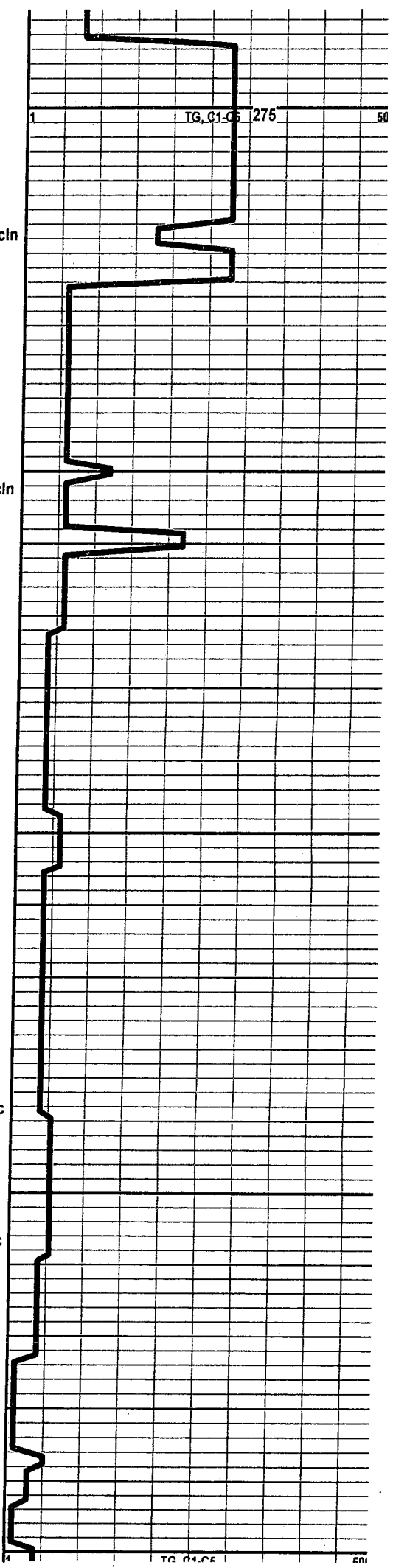
LS: Mot brn micr f xln chky brit cln foss sndy glauc tt no flor no stn or cut

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

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

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

LS: Mot brn gy bf med to dk brn to redbrn biomicr f xln dns sndy foss p vis por occ moldic por tr dk mot hydc flor tr brn o stn & live o gd strmg cut wk show in small % of spls intbd with SH: Red to orng gy gygn mar viol varic blk y wxy sndy



TG, C1-C5

50

Ste. Genevieve

LS: Mot brn to gy micr f xln dns sndy foss ool sil
ip p vis por no show
with SH: Red to orngbrn gy gygn to med gn mar
varic ip frm blkly to sbfis wxy

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

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

608906100 LS: Brn tan bf f xln hd dns sil chky &
sft ip sndy foss cln tt no show

St. Louis

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 cln v ool & sndy foss
p vis por no flor no stn or cut

ROP (min/ft)
6200' TD CO

TG, C1-C5

Atoka

5650

Maroon

SS

Chester

5700

5750

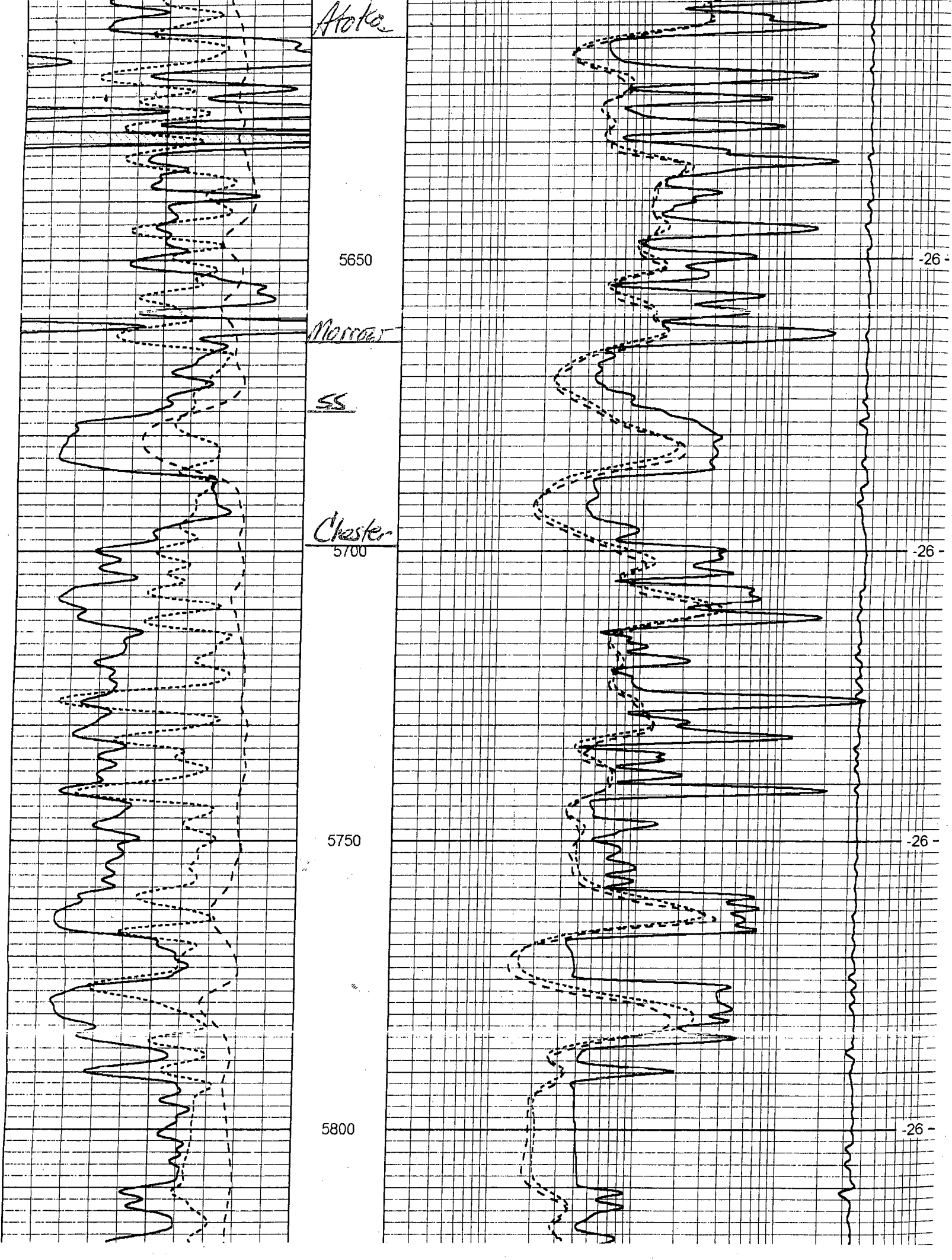
5800

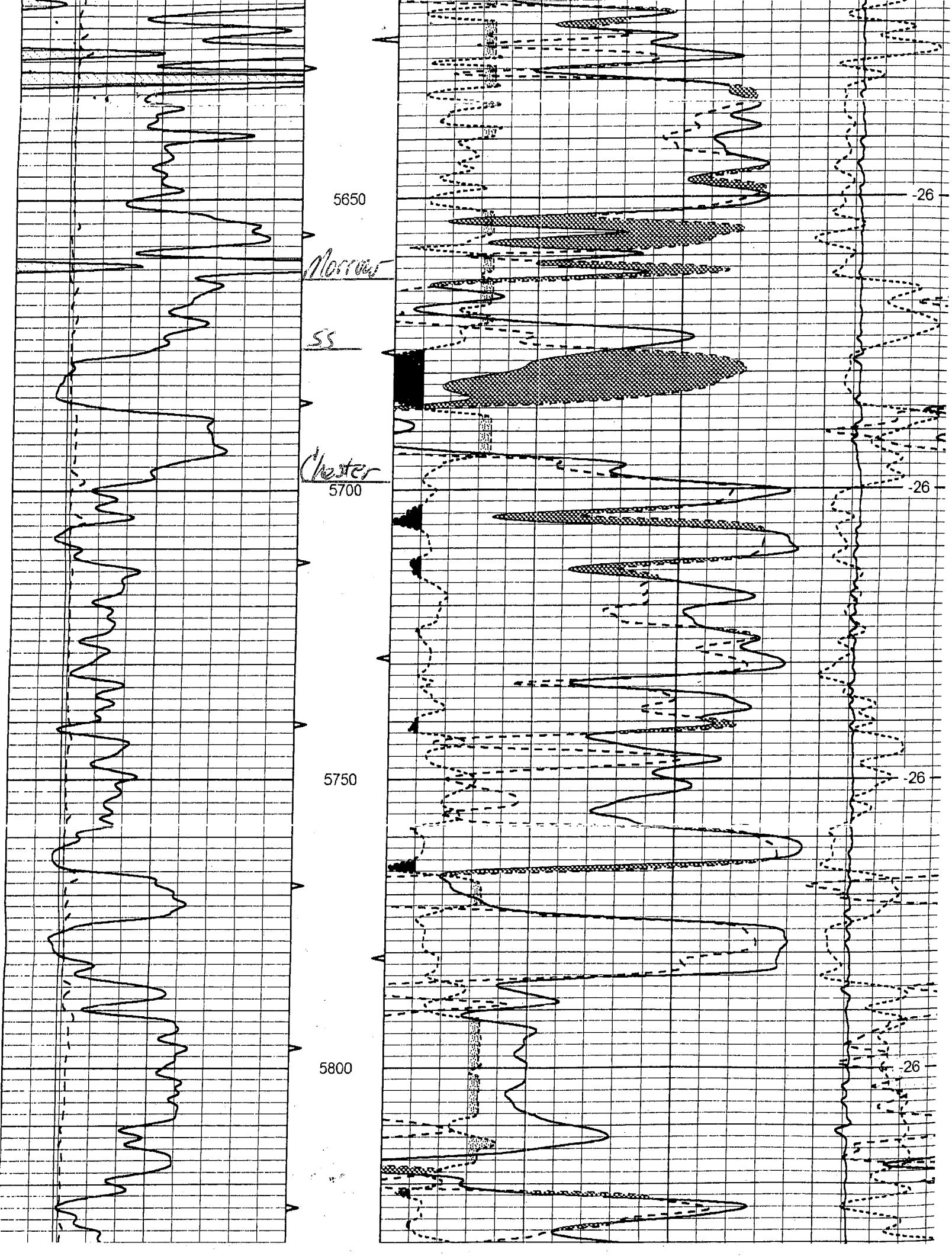
-26-

-26-

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Holka

5650

Morica

SI

Choster

5700

5750

5800

-30

-31

-30

-31

