



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., 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       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1048489

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 1-24
Doc ID	1048489

Tops

Name	Top	Datum
Anhydrite	2152	+702
Base Anhydrite	2209	+645
Heebner Sh	3898	-1044
Lansing-KC	3939	-1085
Stark Sh	4210	-1356
Base KC	4298	-1444
Altamont	4352	-1498
Pawnee	4407	-1553
Fort Scott	4460	-1606
Cherokee	4485	-1631
Mississippian	4548	-1694

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Marit 1-24
Doc ID	1048489

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4530-32, 4496-4502, 4443-46, 4413-16	250 gal 15% NEFe	4530-32
		250 gal 15% NEFe	4496-4502
4	4368-71	250 gal 15% MCA	4368-71
4	4307-11	250 gal 15% MCA	4307-11
4	4277-80	250 gal 15% MCA	4277-80
		200 gal 15% NE	4277-80
		SQZ: 50 sx Class A	4277-80
4	4250-61	250 gal 15% MCA	4250-61

# ALLIED CEMENTING CO., LLC. 038987

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley KS

DATE <u>8-26-10</u>	SEC. <u>24</u>	TWP. <u>18S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>6:30pm</u>	JOB START <u>8:30pm</u>	JOB FINISH <u>9:00pm</u>
LEASE <u>Manit</u>	WELL# <u>1.24</u>	LOCATION <u>Dighton 7w-5in</u>			COUNTY <u>lane</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR H-D #3

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 260'

CASING SIZE used 8 5/8 DEPTH 259'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 15.9

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 175 stks Com 3 20cc

2070 gel

COMMON	<u>175</u>	@	<u>13.65</u>	<u>2388.75</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.40</u>	<u>61.20</u>
CHLORIDE	<u>6</u>	@	<u>57.5</u>	<u>342.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>184</u>	@	<u>2.10</u>	<u>386.40</u>
MILEAGE	<u>.10 x 54 mile</u>			<u>717.00</u>
TOTAL				<u>3896.85</u>

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy

# 431 HELPER Kelly

BULK TRUCK

# 373 DRIVER Jeany

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

cement did circulate

Approx 5 BBS

Job completed @ 9:00pm

Thanks Fuzzy & crew

CHARGE TO: Lairson Engineering

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>259'</u>
PUMP TRUCK CHARGE	<u>999.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE	<u>39</u> @ <u>7.00</u> <u>273.00</u>
MANIFOLD	@ _____
	@ _____
TOTAL <u>1272.00</u>	

PLUG & FLOAT EQUIPMENT

	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
TOTAL _____	

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner, agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME KEWAYNE TRESNER

SIGNATURE Kewayne Tresner

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



CHARGE TO: LARSON ENGINEERING  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET  
18080

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>HAYS</u>	WELL/PROJECT NO. <u>1-24</u>	LEASE <u>MARIT</u>	COUNTY/PARISH <u>LANE</u>	STATE <u>KS</u>	CITY	DATE <u>09-14-10</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>Wkwhst-wkcl</u>	SHIPPED VIA <u>GT</u>	DELIVERED TO <u>1E1/125 AMY</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>CMT: PORT COLLAR</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
<u>575</u>		<u>1</u>			<u>MILEAGE #112</u>	<u>40</u>	<u>MI</u>	<u>5.00</u>		<u>200.00</u>
<u>576-D</u>		<u>1</u>			<u>PUMP SERVICE</u>	<u>1</u>	<u>EA</u>	<u>1100.00</u>		<u>1100.00</u>
<u>290</u>		<u>1</u>			<u>DAIR</u>	<u>2</u>	<u>GAZ</u>	<u>35.00</u>		<u>70.00</u>
<u>330</u>		<u>2</u>			<u>SPND CMT</u>	<u>180</u>	<u>SH</u>	<u>15.00</u>		<u>2700.00</u>
<u>276</u>		<u>2</u>			<u>FUELS</u>	<u>50</u>	<u>LB</u>	<u>1.50</u>		<u>75.00</u>
<u>581</u>		<u>2</u>			<u>SERVICE CHG CMT</u>	<u>225</u>	<u>SH</u>	<u>1.50</u>		<u>337.50</u>
<u>583</u>		<u>2</u>			<u>DRAYAGE</u>	<u>449.2</u>	<u>TM</u>	<u>1.00</u>		<u>449.20</u>

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED 09-14-10 TIME SIGNED 1400  A.M.  P.M.

SWIFT OPERATOR Dave APPROVAL \_\_\_\_\_

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<u>4931</u>	<u>70</u>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
WE UNDERSTOOD AND MET YOUR NEEDS?						
OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<u>Lane TAX 6.3%</u>	<u>179</u>	<u>24</u>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<u>5110</u>	<u>194</u>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 09-14-10 PAGE NO. 1

CUSTOMER LARSON ENGINEERING WELL NO. 1-24 LEASE MARIT JOB TYPE CMT: PLOT CULX TICKET NO. 18080

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							DUPLICATION CMT: 205 SMD 1/4" FLO 2 3/8" S 1/2 155" P.C @ 2111
	1435		10	✓	✓	1000	1000	PSI TEST OPEN P.C.
	1440	3.5	5.0	✓		150		INJ RATE GOOD BROWN
	1442	3.5	0	✓		150		START CMT @ 112"
		4.5	21.0	✓		475		" TO CIRC MUD
		4.5	50.0	✓		550		
		4.5	88.0	✓		550		CIRC CMT TO PIT! MIX 205 SMD @ 14"
		4.5	93.0	✓		550		END CMT
	1500	4.0	0	✓		500		START DISP
	1502	4.0	7.0	✓		500		END
								CLOSE PL
	1508			✓	✓	1100	1100	PSI TEST HOLD RUN IN 4 JOBS
	1515	3.5	0	✓		300		REV. OUT
			7.5	✓		5		1ST FLAG
			10.5	✓				2ND FLAG
	1521		20.0	✓		200		ALL CLEAN
								TOTAL CMT 180 SMD 205 SMD TO PIT!
	1600							JOB COMPLETE  THANK YOU! DAVE, JOSH, B. SHANE



CHARGE TO: LARSON ENGINEERING  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
18077

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. HAMS WELL/PROJECT NO. 1-24 LEASE MARIT COUNTY/PARISH LANE STATE KS CITY DATE 09-07-10 OWNER  
 2. NESS TICKET TYPE  SERVICE CONTRACTOR RIG NAME/NO. HANDLES #3 SHIPPED VIA GT DELIVERED TO 1E1/RS Army ORDER NO.  
 3. WELL TYPE D/L WELL CATEGORY Develop JOB PURPOSE LOWSTRING WELL PERMIT NO. 15-101-22252 WELL LOCATION S24-18, R30  
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #112	40	mi			5.00	200	00
578		1			Pump Service	1	EA			1400.00	1400	00
221		1			LUBRICANT	2	GAZ			25.00	50	00
281		1			MUD FLUSH	500	GAZ			1.00	500	00
290		1			D-AIR	2	GAZ			35.00	70	00
419		1			ROTARY HEAD RENTAL	1	EA	5 1/2 hr		150.00	150	00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED 09-07-10 TIME SIGNED 1930  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				Pg. 1	2370 00
WE UNDERSTOOD AND MET YOUR NEEDS?				Pg. 2	4674 62
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub	
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	7044 62
ARE YOU SATISFIED WITH OUR SERVICE?				Lane TAX	
<input type="checkbox"/> YES <input type="checkbox"/> NO				6.3%	291 94
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	7336 56

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature]

APPROVAL Jay Roberts

Thank You!





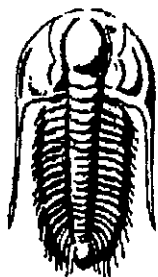
**JOB LOG**

**SWIFT Services, Inc.**

DATE 09-07-10 PAGE NO. 7

CUSTOMER LARSON ENGINEERING WELL NO. 1-24 LEASE MARIT JOB TYPE CONCRETE TICKET NO. 18077

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							DN LOCATION CMT: LEAD: 1255 SMD TAIL: 100 EA-2 RTD 4600 SET PPE 4619 SJ 42.60 ZUSCH 4576 5/2 155# P.C. ON TOP N/A, <del>2114 FT</del> 2114 FT CMT N/A BASET N/A
	2010							TALBOTTER - DRIP BALL
	2015							BREAK CIRC, ROTATE PIPE
	2120		70					PLUG RA 30 SMD SMD
	2125	5.5	12		-		250	START MUDFLUSH 500 LIT
			20		-			" WCL FLUSH
			37		-			LEAD CMT 95 SMD SMD @ 12.5#
			24.5		-			TAIL CMT 100 SMD EA-2 @ 15.4#
								DRIP WD PLUG WAS DRUT A
	2245	7.5	0		-		300	START DRY
			48.5		-		400	CMT DRIBBLES
			98.0		-		500	
			100.0		-		650	
			105.0		-		750	STOP ROTATING PIPE
	2200	4.5	108.9		-		1500	LAND RING
	2205							RELEASE - DRY
								JOB COMPLETE
								THANK YOU DAN ROSAB, JDE



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Rd 4  
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

**S24-18-30 Lane,KS**

**Marit #1-24**

Start Date: 2010.09.01 @ 22:28:00

End Date: 2010.09.02 @ 04:19:24

Job Ticket #: 40207                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Larson Engineering

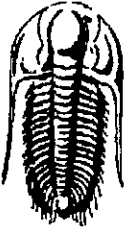
Marit #1-24

S24-18-30 Lane,KS

DST # 1

Lansing 'H'

2010.09.01



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Larson Engineering  
 562 W. St. Rd 4  
 Olmitz, KS 67564-8561  
 ATTN: Bob Lewellyn

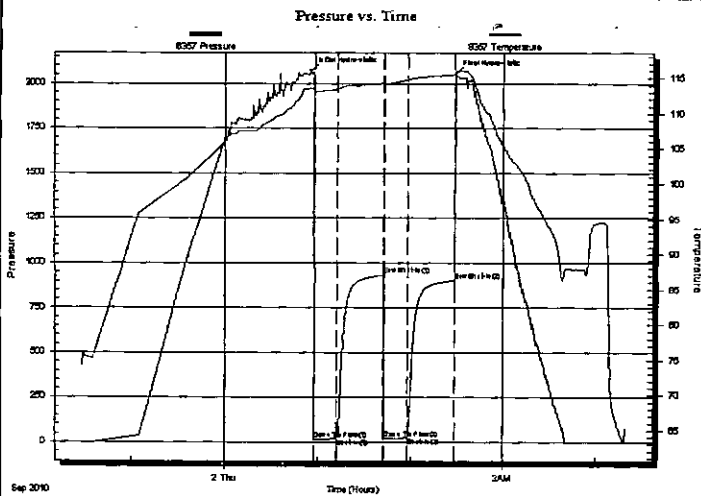
**Marit #1-24**  
**S24-18-30 Lane, KS**  
 Job Ticket: 40207 DST#: 1  
 Test Start: 2010.09.01 @ 22:28:00

**GENERAL INFORMATION:**

Formation: <b>Lansing 'H'</b>	Test Type: <b>Conventional Bottom Hole</b>
Deviated: <b>No Whipstock:</b> ft (KB)	Tester: <b>Chuck Smith</b>
Time Tool Opened: <b>00:57:42</b>	Unit No: <b>37</b>
Time Test Ended: <b>04:19:24</b>	Reference Elevations: <b>2854.00 ft (KB)</b>
Interval: <b>4110.00 ft (KB) To 4145.00 ft (KB) (TVD)</b>	<b>2847.00 ft (CF)</b>
Total Depth: <b>4145.00 ft (KB) (TVD)</b>	KB to GR/CF: <b>7.00 ft</b>
Hole Diameter: <b>7.88 inches</b>	Hole Condition: <b>Good</b>

<b>Serial #: 8357</b>	<b>Inside</b>	Capacity: <b>8000.00</b> psig
Press@RunDepth: <b>24.50</b> psig @ <b>4114.00</b> ft (KB)	Last Calib.: <b>2010.09.02</b>	
Start Date: <b>2010.09.01</b>	End Date: <b>2010.09.02</b>	Time On Btm: <b>2010.09.02 @ 00:55:00</b>
Start Time: <b>22:28:05</b>	End Time: <b>04:19:24</b>	Time Off Btm: <b>2010.09.02 @ 02:28:42</b>

TEST COMMENT: IF: Surface blow receded.  
 IS: No return.  
 FF: No blow.  
 FSI: No return.



**PRESSURE SUMMARY**

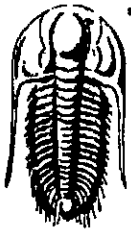
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.36	113.52	Initial Hydro-static
3	16.38	112.75	Open To Flow (1)
18	19.13	113.47	Shut-In(1)
48	932.95	114.35	End Shut-In(1)
48	21.03	114.04	Open To Flow (2)
63	24.50	114.87	Shut-In(2)
94	904.84	115.55	End Shut-In(2)
94	2052.42	115.95	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.10

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Larson Engineering  
562 W. St. Rd 4  
Olmitz, KS 67564-8561  
ATTN: Bob Lewellyn

Marit #1-24  
S24-18-30 Lane, KS  
Job Ticket: 40207      DST#: 1  
Test Start: 2010.09.01 @ 22:28:00

**Tool Information**

Drill Pipe:	Length: 4028.00 ft	Diameter: 3.80 inches	Volume: 56.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 86.00 ft	Diameter: 2.25 inches	Volume: 0.42 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 56.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4110.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4083.50	
Shut In Tool	5.00			4088.50	
Hydraulic tool	5.00			4093.50	
Jars	5.00			4098.50	
Safety Joint	2.50			4101.00	
Packer	5.00			4106.00	27.50      Bottom Of Top Packer
Packer	4.00			4110.00	
Stubb	1.00			4111.00	
Perforations	3.00			4114.00	
Recorder	0.00	8357	Inside	4114.00	
Recorder	0.00	6751	Outside	4114.00	
Perforations	28.00			4142.00	
Bullnose	3.00			4145.00	35.00      Bottom Packers & Anchor

**Total Tool Length: 62.50**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

Marit #1-24

562 W. St. Rd 4  
Olmitz, KS 67564-8561

S24-18-30 Lane, KS

Job Ticket: 40207

DST#: 1

ATTN: Bob Lewellyn

Test Start: 2010.09.01 @ 22:28:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100%M	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

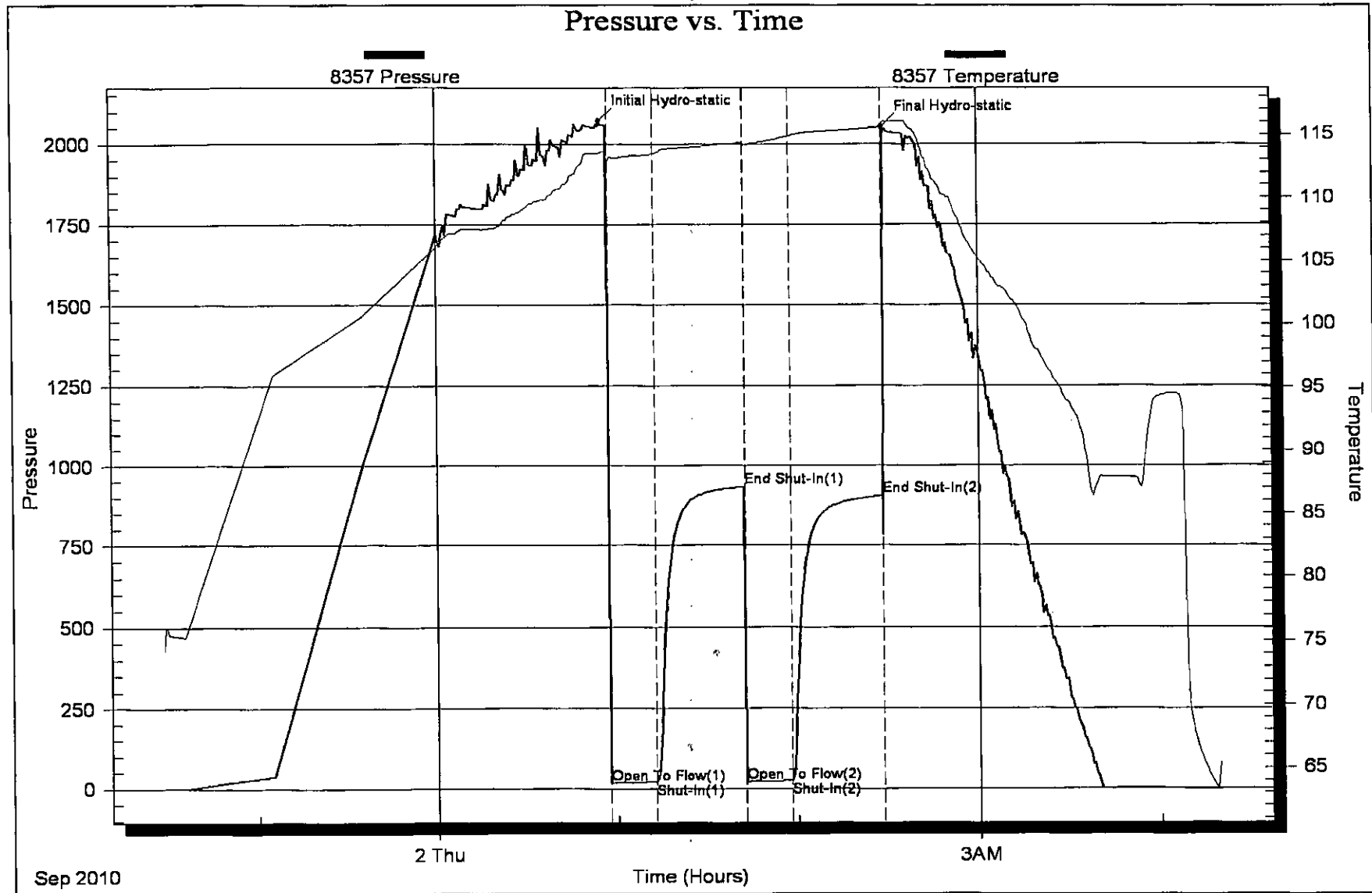
Num Gas Bombs: 0

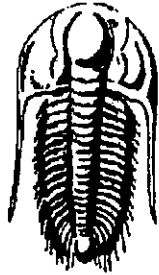
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Rd 4  
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

**S24-18-30 Lane,KS**

**Marit #1-24**

Start Date: 2010.09.02 @ 15:47:00

End Date: 2010.09.02 @ 22:25:36

Job Ticket #: 40208                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Larson Engineering

Marit #1-24

S24-18-30 Lane,KS

DST # 2

Lansing 'J'

2010.09.02





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering  
562 W. St. Rd 4  
Olmitz, KS 67564-8561  
ATTN: Bob Lewellyn

**Marit #1-24**  
**S24-18-30 Lane, KS**  
Job Ticket: 40208      DST#: 2  
Test Start: 2010.09.02 @ 15:47:00

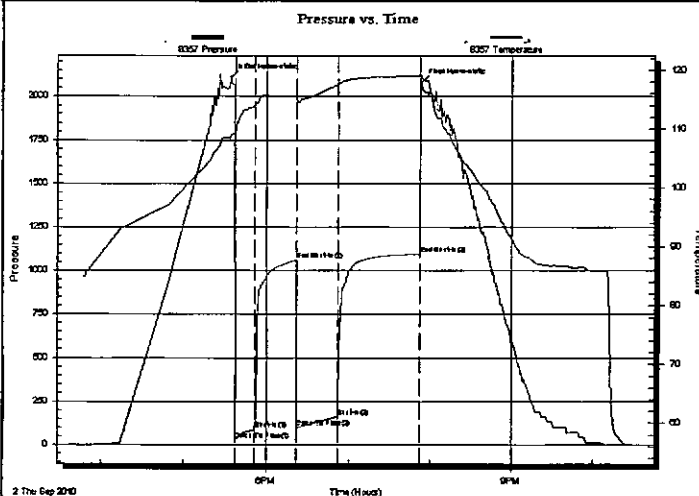
## GENERAL INFORMATION:

Formation: **Lansing 'J'**  
Deviated: **No** Whipstock:                      ft (KB)      Test Type: **Conventional Bottom Hole**  
Time Tool Opened: 17:37:06      Tester: **Chuck Smith**  
Time Test Ended: 22:25:36      Unit No: **37**

Interval: **4154.00 ft (KB) To 4187.00 ft (KB) (TVD)**      Reference Elevations:      2854.00 ft (KB)  
Total Depth: **4187.00 ft (KB) (TVD)**      2847.00 ft (CF)  
Hole Diameter: **7.88 inches** Hole Condition: **Good**      KB to GR/CF:      7.00 ft

**Serial #: 8357**      Inside  
Press@RunDepth:      161.66 psig @      4156.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2010.09.02      End Date:      2010.09.02      Last Calib.:      2010.09.02  
Start Time:      15:47:05      End Time:      22:25:36      Time On Btm:      2010.09.02 @ 17:33:48  
Time Off Btm:      2010.09.02 @ 19:53:06

**TEST COMMENT:** IF: B.O.B. @ 12 min.  
ISI: 2" Return receded to 1/2".  
FF: B.O.B. @ 10 min.  
FSI: 2 1/2" Return receded to 1/2".



## PRESSURE SUMMARY

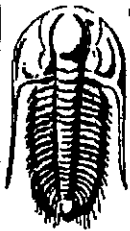
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.92	108.65	Initial Hydro-static
4	24.56	108.40	Open To Flow (1)
18	89.74	114.11	Shut-In(1)
48	1060.81	115.57	End Shut-In(1)
49	97.95	115.00	Open To Flow (2)
79	161.66	117.58	Shut-In(2)
139	1094.75	118.99	End Shut-In(2)
140	2079.58	118.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
173.00	GMCO 15%G 20%M 65%O	1.13
196.00	GO 20%G 80%O	2.75
0.00	425 Feet GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Larson Engineering  
562 W. St. Rd 4  
Olmritz, KS 67564-8561  
ATTN: Bob Lewellyn

**Marit #1-24**  
**S24-18-30 Lane,KS**  
Job Ticket: 40208      **DST#: 2**  
Test Start: 2010.09.02 @ 15:47:00

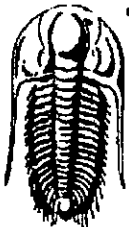
**Tool Information**

Drill Pipe:	Length: 3996.00 ft	Diameter: 3.80 inches	Volume: 56.05 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 142.00 ft	Diameter: 2.25 inches	Volume: 0.70 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 56.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4154.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	60.50 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4127.50	
Shut In Tool	5.00			4132.50	
Hydraulic tool	5.00			4137.50	
Jars	5.00			4142.50	
Safety Joint	2.50			4145.00	
Packer	5.00			4150.00	27.50      Bottom Of Top Packer
Packer	4.00			4154.00	
Stubb	1.00			4155.00	
Perforations	1.00			4156.00	
Recorder	0.00	8357	Inside	4156.00	
Recorder	0.00	6751	Outside	4156.00	
Perforations	28.00			4184.00	
Bullnose	3.00			4187.00	33.00      Bottom Packers & Anchor

**Total Tool Length: 60.50**



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering  
562 W. St. Rd 4  
Olmitz, KS 67564-8561  
ATTN: Bob Lewellyn

Marit #1-24  
S24-18-30 Lane, KS  
Job Ticket: 40208      DST#: 2  
Test Start: 2010.09.02 @ 15:47:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 2.00 inches		

### Recovery Information

Recovery Table

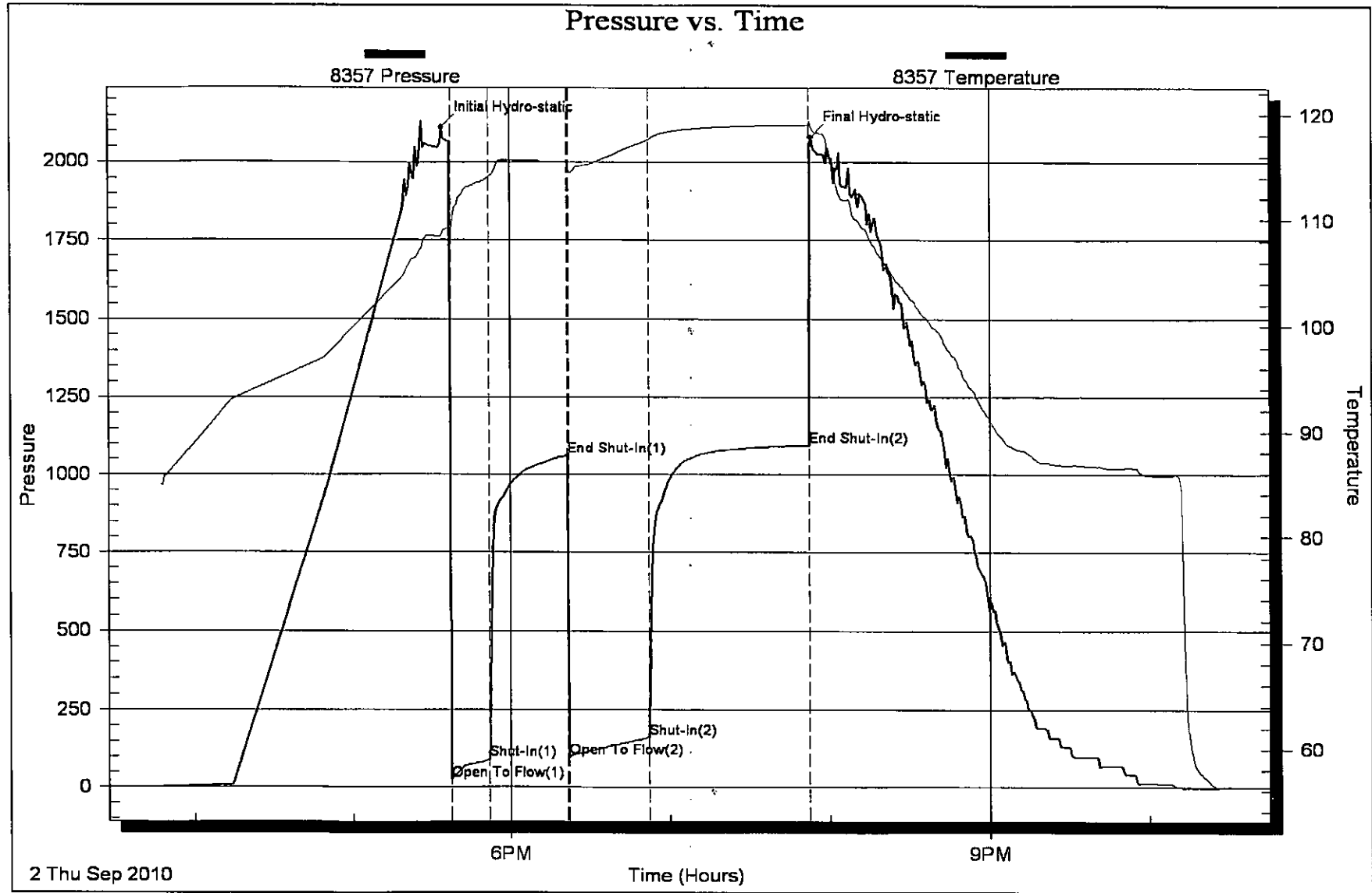
Length ft	Description	Volume bbl
173.00	GMCO 15%G 20%M 65%O	1.133
196.00	GO 20%G 80%O	2.749
0.00	425 Feet GIP	0.000

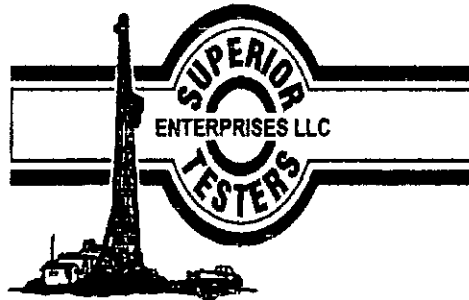
Total Length: 369.00 ft      Total Volume: 3.882 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: APt: 36 @ 60 Degrees F = 36 .





## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4 Olmitz 67564+8561

ATTN: Bob Lewellyn

**24/18S/30W Lane**

**Marit #1-24**

Start Date: 2010.09.03 @ 09:46:00

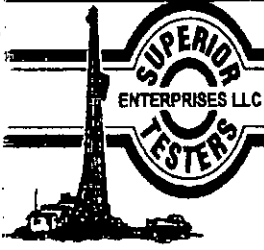
End Date: 2010.09.03 @ 16:13:30

Job Ticket #: 16113                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.09.03 @ 17:02:24

Larson Engineering Inc.  
Marit #1-24  
24/18S/30W Lane  
DST # 3  
Lansing  
2010.09.03



# DRILL STEM TEST REPORT

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

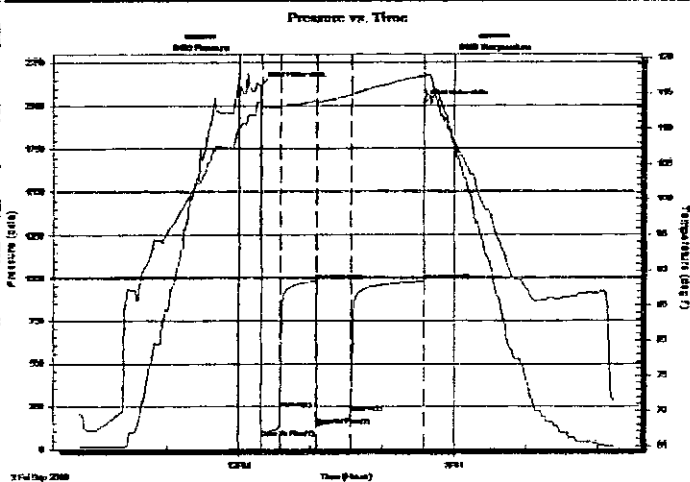
Marit #1-24  
 24/18S/30W Lane  
 Job Ticket: 16113 DST#: 3  
 Test Start: 2010.09.03 @ 09:46:00

## GENERAL INFORMATION:

Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:19:30  
 Time Test Ended: 16:13:30  
 Interval: **4184.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E. Ellis  
 Unit No: 3345-GB-206  
 Reference Elevations: 2854.00 ft (KB)  
 2847.00 ft (CF)  
 KB to GR/CF: 7.00 ft

Serial #: **8400** Outside  
 Press@RunDepth: 212.60 psia @ 4212.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.09.03 End Date: 2010.09.03 Last Calib.: 2010.09.03  
 Start Time: 09:46:00 End Time: 16:13:30 Time On Btm: 2010.09.03 @ 12:18:00  
 Time Off Btm: 2010.09.03 @ 14:35:00

TEST COMMENT: 1ST Opening 15 Minutes fair steady blow / bottom of a 5 gallon bucket of water in 13 minutes.  
 1ST Shut-in 30 Minutes yes steady through out 1 inch into 5 gallon bucket of water  
 2ND Opening 30 Minutes fair steady blow / bottom of a 5 gallon bucket of water in 13 minutes.  
 2ND Shut-in 60 Minutes yes but it died out half way through shut-in



## PRESSURE SUMMARY

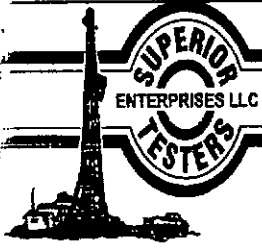
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2120.15	113.70	Initial Hydro-static
2	66.66	113.08	Open To Flow (1)
17	231.60	113.01	Shut-in(1)
47	982.11	113.97	End Shut-in(1)
48	132.43	113.76	Open To Flow (2)
76	212.60	114.72	Shut-in(2)
137	980.30	117.48	End Shut-in(2)
137	2015.48	118.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Gassy Oil cut Muddy Water	0.30
0.00	Gas 5% Oil 5% Mud 15% Water 75%	0.00
60.00	Gassy Mud cut Oil	0.30
0.00	Gas 10% Oil 46% Mud 44%	0.00
60.00	Slightly Watery Gassy Mud cut Oil	0.30
0.00	Gas 15% Oil 55% Mud 26% Water 4%	0.00

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

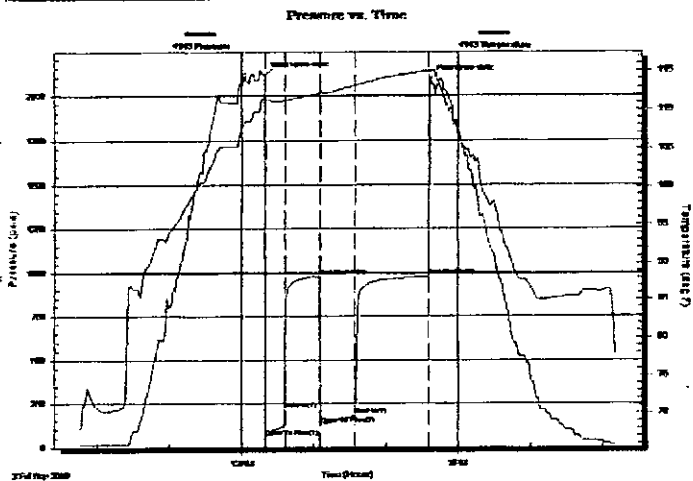
**Marit #1-24**  
**24/18S/30W Lane**  
 Job Ticket: 16113      **DST#: 3**  
 Test Start: 2010.09.03 @ 09:46:00

## GENERAL INFORMATION:

Formation: **Lansing**  
 Deviated: **No Whipstock:**      **ft (KB)**  
 Time Tool Opened: 12:19:30  
 Time Test Ended: 16:13:30  
 Interval: **4184.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: **4215.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Dylan E Ellis**  
 Unit No: **3345-GB-206**  
 Reference Elevations: **2854.00 ft (KB)**  
    **2847.00 ft (CF)**  
    **KB to GR/CF: 7.00 ft**

**Serial #: 4143**      **Inside**  
 Press@RunDepth: **978.78 psia @ 4211.00 ft (KB)**      Capacity: **5000.00 psia**  
 Start Date: **2010.09.03**      End Date: **2010.09.03**      Last Calib.: **2010.09.03**  
 Start Time: **09:46:00**      End Time: **16:13:30**      Time On Btm: **2010.09.03 @ 12:19:16**  
    **Time Off Btm: 2010.09.03 @ 14:36:46**

**TEST COMMENT:** 1ST Opening 15 Minutes fair steady blow / bottom of a 5 gallon bucket of water in 13 minutes.  
 1ST Shut-In 30 Minutes yes steady through out 1 inch into 5 gallon bucket of water  
 2ND Opening 30 Minutes fair steady blow / bottom of a 5 gallon bucket of water in 13 minutes.  
 2ND Shut-In 60 Minutes yes but it died out half way through shut-in



## PRESSURE SUMMARY

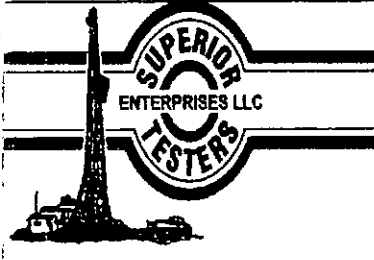
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2110.68	111.41	Initial Hydro-static
1	56.95	111.36	Open To Flow (1)
17	213.62	111.19	Shut-in(1)
46	979.04	112.14	End Shut-in(1)
47	132.02	112.16	Open To Flow(2)
75	182.36	113.12	Shut-in(2)
136	978.78	115.08	End Shut-in(2)
138	2088.61	114.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Gassy Oil cut Muddy Water	0.30
0.00	Gas 5% Oil 5% Mud 15% Water 75%	0.00
60.00	Gassy Mud cut Oil	0.30
0.00	Gas 10% Oil 46% Mud 44%	0.00
60.00	Slightly Watery Gassy Mud cut Oil	0.30
0.00	Gas 15% Oil 55% Mud 26% Water 4%	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.  
 562 West State Road #4 Oritzt 67564+8561  
 ATTN: Bob Lewelyn

Marit #1-24  
 24/18S/30W Lane  
 Job Ticket: 16113      DST#: 3  
 Test Start: 2010.09.03 @ 09:46:00

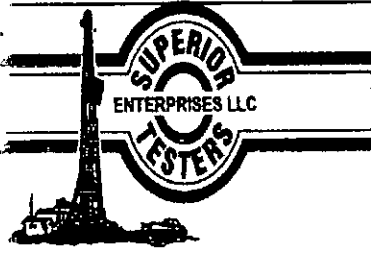
**Tool Information**

Drill Pipe:	Length: 4002.00 ft	Diameter: 3.80 inches	Volume: 56.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 182.83 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.83 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4184.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4156.00	
Shut-in Tool	5.00			4161.00	
Hydroic Tool	5.00			4166.00	
Jars	6.00			4172.00	
Safety Joint	2.00			4174.00	
Packer	5.00			4179.00	29.00      Bottom Of Top Packer
Packer	5.00			4184.00	
Perforations	26.00			4210.00	
Recorder	1.00	4143	Inside	4211.00	
Recorder	1.00	8400	Outside	4212.00	
Bullnose	3.00			4215.00	31.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering Inc.

Marit #1-24

562 West State Road #4 Olmitz 67564+8561

24/18S/30W Lane

Job Ticket: 16113

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2010.09.03 @ 09:46:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 55000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 1900.00 ppm		
Filter Cake: 2.00 inches		

### Recovery Information

Recovery Table

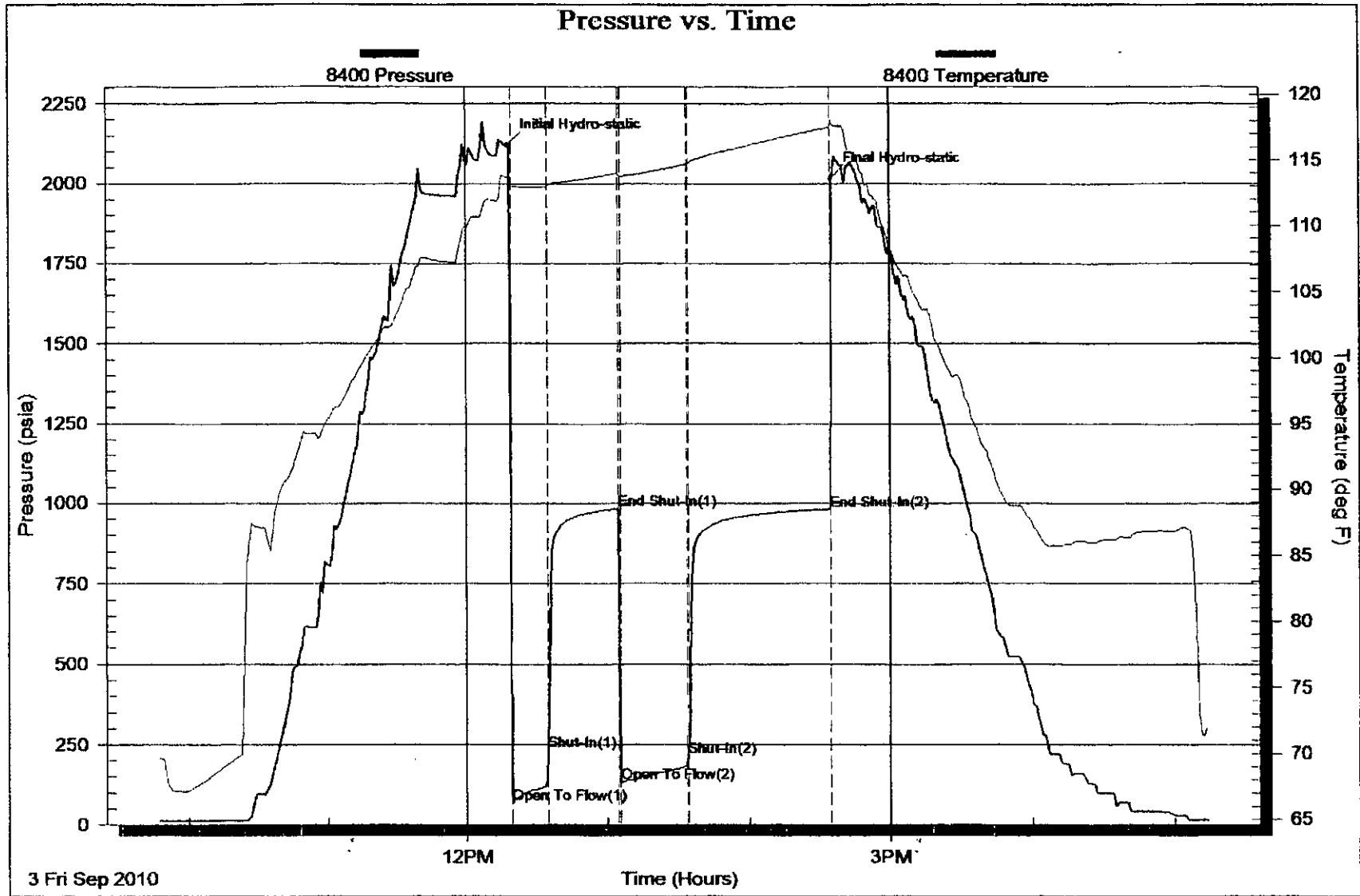
Length ft	Description	Volume bbl
60.00	Slightly Gassy Oil cut Muddy Water	0.295
0.00	Gas 5% Oil 5% Mud 15% Water 75%	0.000
60.00	Gassy Mud cut Oil	0.295
0.00	Gas 10% Oil 46% Mud 44%	0.000
60.00	Slightly Watery Gassy Mud cut Oil	0.295
0.00	Gas 15% Oil 55% Mud 26% Water 4%	0.000
50.00	Slightly Gassy Oil cut Mud	0.676
0.00	Gas 10% Oil 80% Mud 10%	0.000
140.00	Free Oil Oil 100%	1.964
0.00	Chlorides 55000.0	0.000
0.00	Resistivity is .28 @ 84 Degrees	0.000

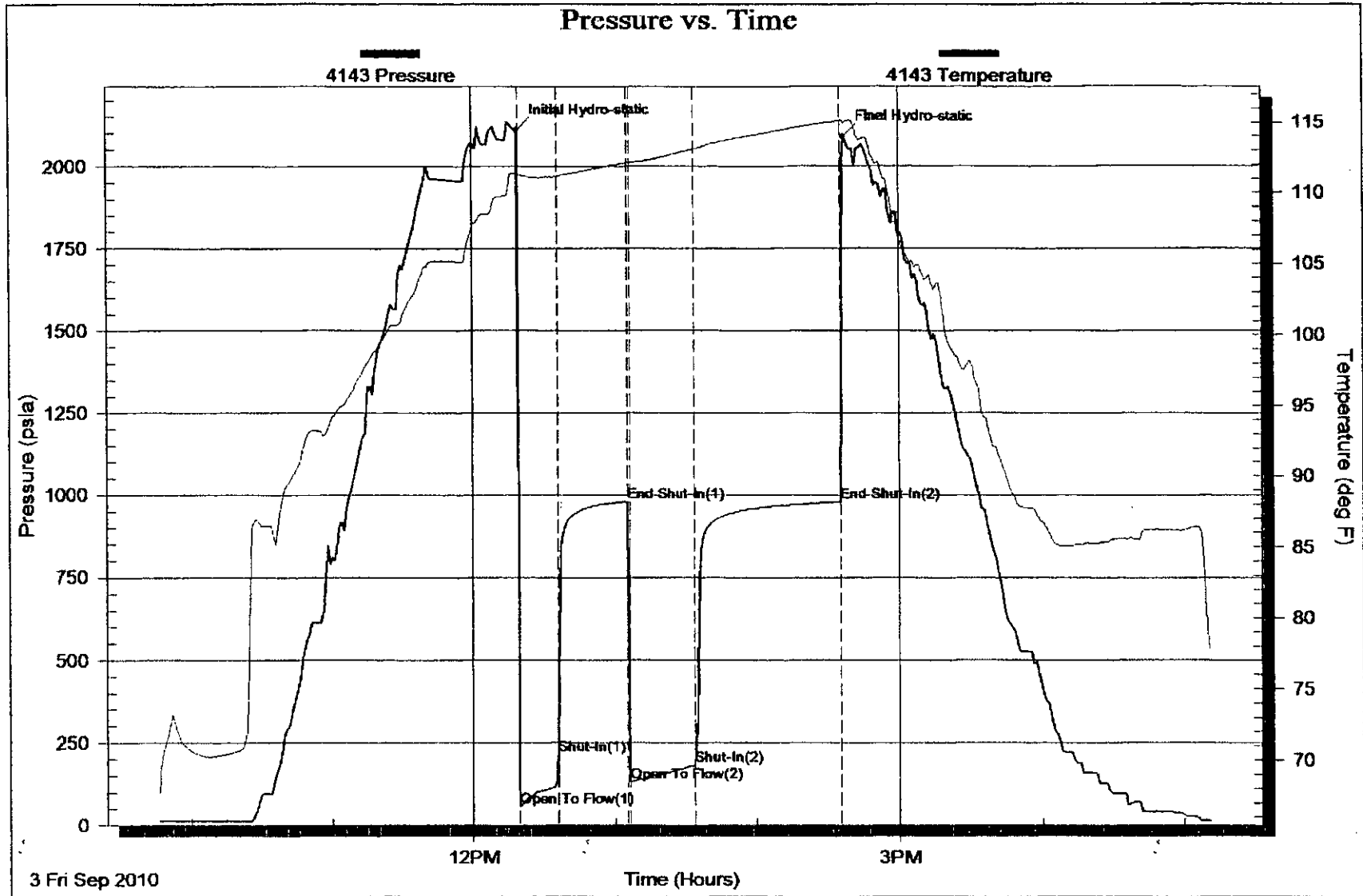
Total Length: 370.00 ft      Total Volume: 3.525 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4 Olmitz 67564+8561

ATTN: Bob Lewellyn

**24/18S/30W Lane**

**Marit #1-24**

Start Date: 2010.09.04 @ 05:40:00

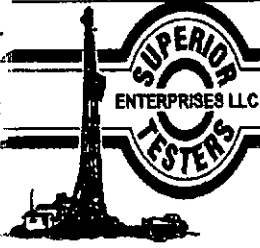
End Date: 2010.09.04 @ 12:44:15

Job Ticket #: 16114                      DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.09.04 @ 13:30:54

Larson Engineering Inc.      Marit #1-24      24/18S/30W Lane      DST # 4      Lansing "K" Zone      2010.09.04



# DRILL STEM TEST REPORT

Larson Engineering Inc. **Marit #1-24**  
 562 West State Road #4 Olmitz 67564+8561 **24/18S/30W Lane**  
 Job Ticket: 16114 **DST#: 4**  
 ATTN: Bob Lewellyn Test Start: 2010.09.04 @ 05:40:00

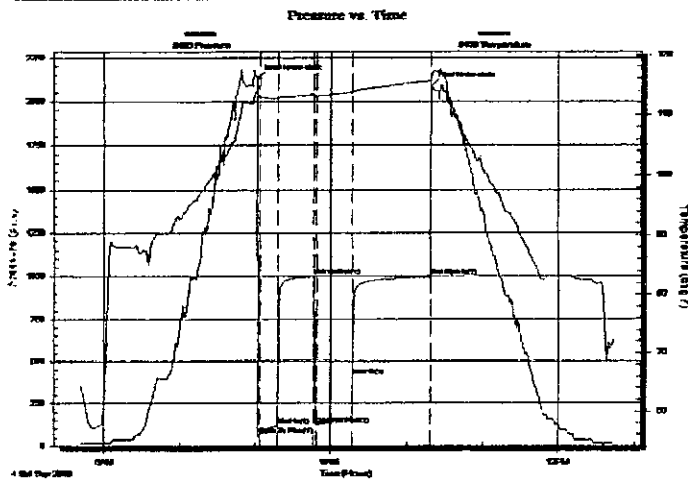
## GENERAL INFORMATION:

Formation: **Lansing "K" Zone**  
 Deviated: **No Whipstock** ft (KB) Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **08:03:30** Tester: **Dylan E. Ellis**  
 Time Test Ended: **12:44:15** Unit No: **3345-GB-206**

Interval: **4209.00 ft (KB) To 4240.00 ft (KB) (TVD)** Reference Elevations: **2854.00 ft (KB)**  
 Total Depth: **4240.00 ft (KB) (TVD)** **2847.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GRVCF: **7.00 ft**

Serial #: **8400** Outside  
 Press@RunDepth: **413.97 psia @ 4237.00 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2010.09.04** End Date: **2010.09.04** Last Calf.: **2010.09.04**  
 Start Time: **05:40:00** End Time: **12:44:15** Time On Btm: **2010.09.04 @ 08:01:30**  
 Time Off Btm: **2010.09.04 @ 10:19:30**

TEST COMMENT: 1ST Opening 15 Minutes weak blow/blow built to 6 inches into a 5 gallon bucket of water  
 1ST Shut-in 30 Minutes no blow back  
 2ND Opening 30 Minutes weak blow/blow built to bottom of the 5 gallon bucket of water  
 2ND Shut-in 60 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2129.53	113.58	Initial Hydro-static
2	62.66	112.92	Open To Flow (1)
16	116.74	112.69	Shut-in (1)
45	1000.56	113.33	End Shut-in (1)
47	121.80	113.10	Open To Flow (2)
76	413.97	113.85	Shut-in (2)
137	997.74	115.69	End Shut-in (2)
138	2084.15	116.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slight Oil skim in Mud cut Water	0.30
0.00	1% Oil 20% Mud 79% Water	0.00
60.00	Slight Oil skim in Mud cut Water	0.30
0.00	0.50% Oil 10% Mud 89.50% Water	0.00
60.00	Mud cut Water with a trace of Oil	0.30
0.00	20% Mud 80% Water	0.00

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

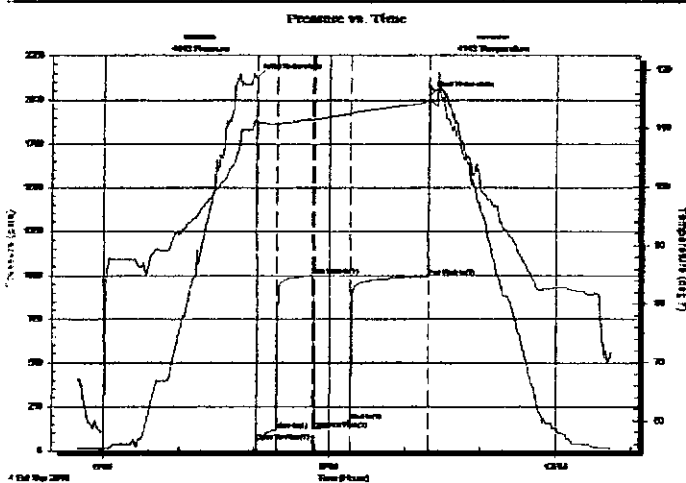
**Marit #1-24**  
**24/18S/30W Lane**  
 Job Ticket: 16114      DST#: 4  
 Test Start: 2010.09.04 @ 05:40:00

## GENERAL INFORMATION:

Formation: **Lansing "K" Zone**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:03:30  
 Time Test Ended: 12:44:15  
 Interval: **4209.00 ft (KB) To 4240.00 ft (KB) (TVD)**  
 Total Depth: 4240.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E. Ellis  
 Unit No: 3345-GB-206  
 Reference Elevations: 2854.00 ft (KB)  
 2847.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 4143**      **Inside**  
 Press@RunDepth: 995.19 psia @ 4236.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.09.04      End Date: 2010.09.04      Last Calib.: 2010.09.04  
 Start Time: 05:40:00      End Time: 12:44:15      Time On Btm: 2010.09.04 @ 08:01:15  
 Time Off Btm: 2010.09.04 @ 10:19:16

**TEST COMMENT:** 1ST Opening 15 Minutes weak blow/blow built to 6 inches into a 5 gallon bucket of water  
 1ST Shut-in 30 Minutes no blow back  
 2ND Opening 30 Minutes weak blow/blow built to bottom of the 5 gallon bucket of water  
 2ND Shut-in 60 Minutes no blow back



## PRESSURE SUMMARY

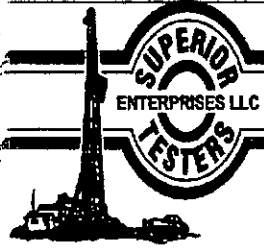
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2126.92	111.32	Initial Hydro-static
2	53.19	111.22	Open To Flow (1)
17	118.41	110.80	Shut-in(1)
46	998.77	111.58	End Shut-in(1)
48	121.56	111.64	Open To Flow (2)
76	170.20	112.59	Shut-in(2)
138	995.19	114.45	End Shut-in(2)
139	2025.14	114.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slight Oil skim in Mud cut Water	0.30
0.00	1% Oil 20% Mud 79% Water	0.00
60.00	Slight Oil skim in Mud cut Water	0.30
0.00	0.50% Oil 10% Mud 89.50% Water	0.00
60.00	Mud cut Water with a trace of Oil	0.30
0.00	20% Mud 80% Water	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

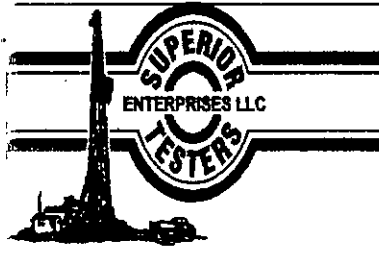
Marit #1-24  
 24/18S/30W Lane  
 Job Ticket: 16114      DST#: 4  
 Test Start: 2010.09.04 @ 05:40:00

**Tool Information**

Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 182.83 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 57.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.83 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4209.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4181.00	
Shut-in Tool	5.00			4186.00	
Hydroic Tool	5.00			4191.00	
Jars	6.00			4197.00	
Safety Joint	2.00			4199.00	
Packer	5.00			4204.00	29.00      Bottom Of Top Packer
Packer	5.00			4209.00	
Perforations	26.00			4235.00	
Recorder	1.00	4143	Inside	4236.00	
Recorder	1.00	8400	Outside	4237.00	
Bullnose	3.00			4240.00	31.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

Marit #1-24  
 24/18S/30W Lane  
 Job Ticket: 16114      DST#: 4  
 Test Start: 2010.09.04 @ 05:40:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

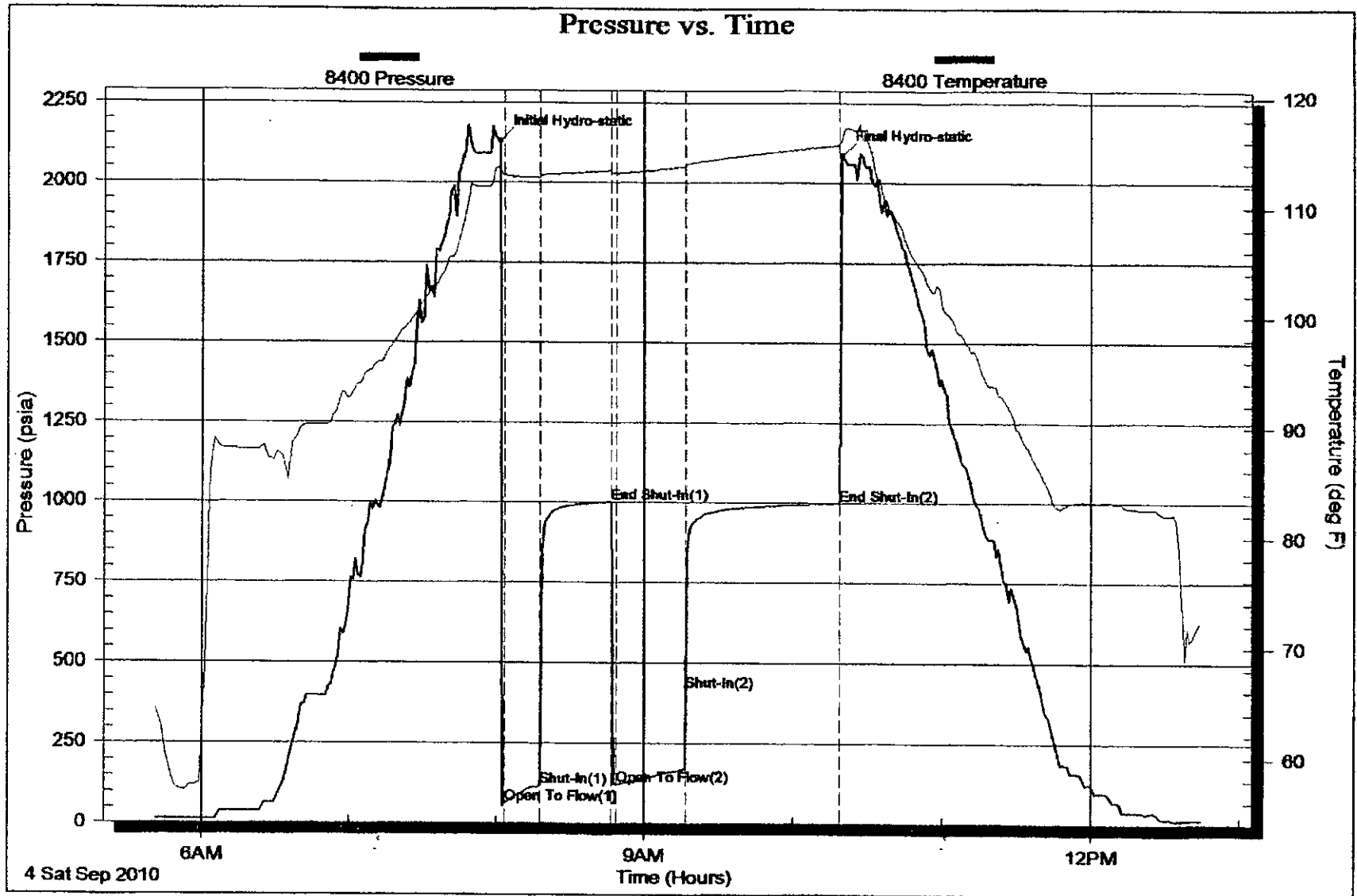
## Recovery Information

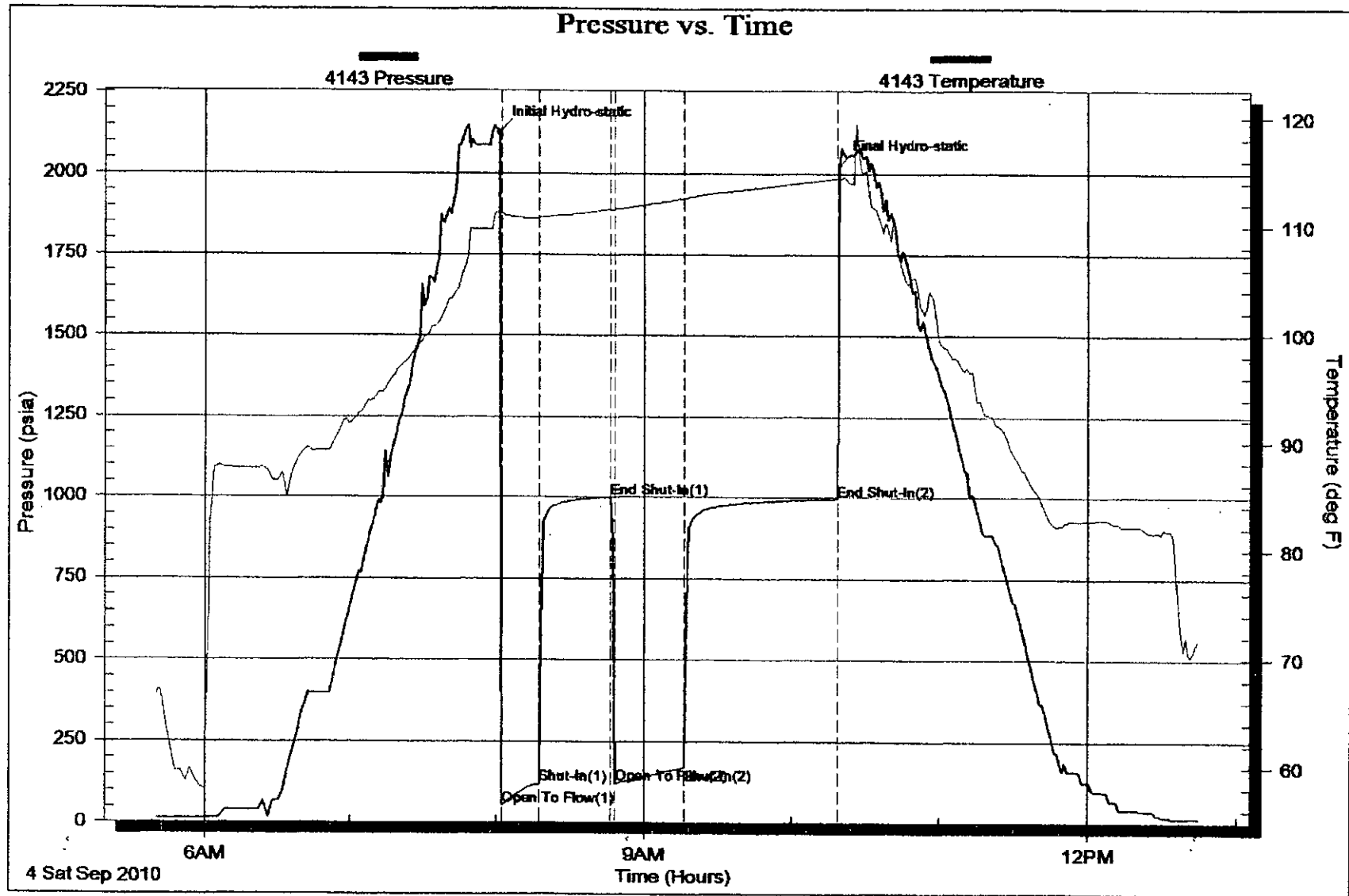
Recovery Table

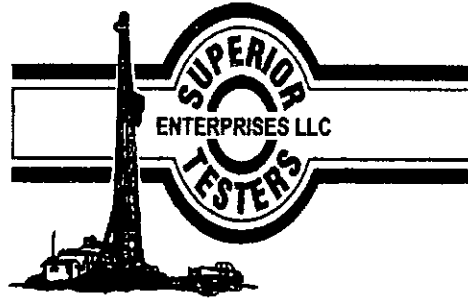
Length ft	Description	Volume bbl
60.00	Slight Oil skim in Mud cut Water	0.295
0.00	1% Oil 20% Mud 79% Water	0.000
60.00	Slight Oil skim in Mud cut Water	0.295
0.00	0.50% Oil 10% Mud 89.50% Water	0.000
60.00	Mud cut Water with a trace of Oil	0.295
0.00	20% Mud 80% Water	0.000
60.00	Slight Watery Oil cut Mud	0.816
0.00	10% Oil 80% Mud 10% Water	0.000
60.00	Oil cut Mud 50% Oil/50%Mud	0.842
0.00	Chlorides 31000	0.000
0.00	Resistivity is .33@84 Degrees	0.000

Total Length: 300.00 ft      Total Volume: 2.543 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc.**

562 West State Road #4 Olmitz 67564+8561

ATTN: Bob Lewellyn

**24/18S/30W Lane**

**Marit #1-24**

Start Date: 2010.09.04 @ 22:49:00

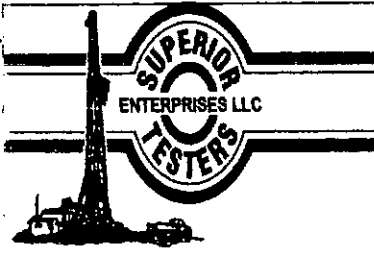
End Date: 2010.09.05 @ 10:18:00

Job Ticket #: 16115                      DST #: 5

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.09.05 @ 11:18:39

Larson Engineering Inc.      Marit #1-24      24/18S/30W Lane      DST # 5      Lansing " L " Zone      2010.09.04



# DRILL STEM TEST REPORT

Larson Engineering Inc.

Marit #1-24

562 West State Road #4 Olmitz 67564+8561

24/18S/30W Lane

Job Ticket: 16115

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2010.09.04 @ 22:49:00

## GENERAL INFORMATION:

Formation: Lansing "L" Zone

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:34:00

Time Test Ended: 10:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E. Ellis

Unit No: 3345-Dighton-30

Interval: 4246.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 2854.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GRVCF: 7.00 ft

Serial #: 8400

Outside

Press@RunDepth: 807.00 psia @ 4267.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.09.04

End Date:

2010.09.05

Last Calib.: 2010.09.05

Start Time: 22:49:00

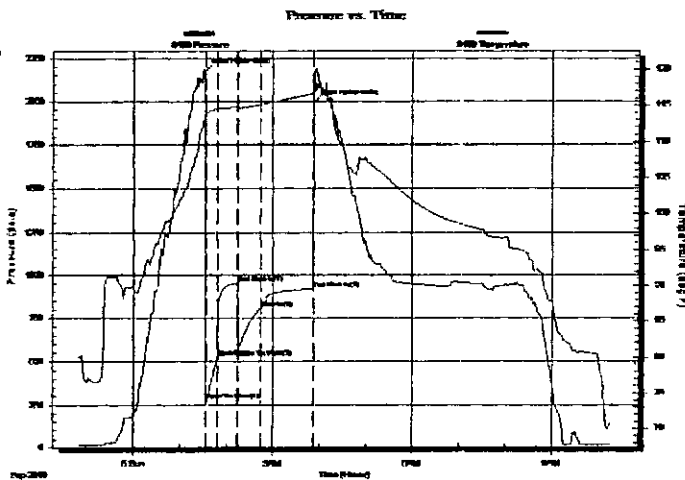
End Time:

10:18:00

Time On Btm: 2010.09.05 @ 01:32:30

Time Off Btm: 2010.09.05 @ 03:53:30

TEST COMMENT: 1ST Opening 15 Minutes strong blow/Blow blew to bottom of a 5 gallon bucket of water  
 1ST Shut-in 30 Minutes yes had blow back  
 2ND Opening 30 Minutes not as strong as a blow but still blew to the bottom of a 5 gallon bucket of water in 1 minute



## PRESSURE SUMMARY

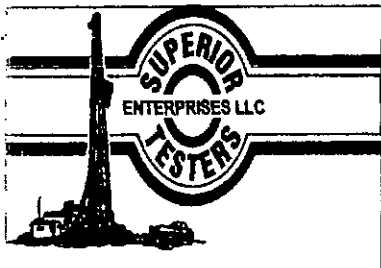
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2175.23	113.63	Initial Hydro-static
2	272.07	113.68	Open To Flow (1)
16	524.78	114.54	Shut-in (1)
41	951.98	114.77	End Shut-in (1)
42	570.26	114.67	Open To Flow (2)
72	807.00	115.14	Shut-in (2)
140	919.75	116.68	End Shut-in (2)
141	1992.44	119.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Oil and Water cut Mud	0.30
0.00	14% Oil 60% 26% Water	0.00
60.00	Lightly Watery Mud cut Oil	0.30
0.00	10% Gas 45% Oil 20% Mud 15% Water	0.00
60.00	Oil cut Mud Oil 50% Mud 50%	0.30
504.00	Slightly Mud cut Gassy Oil	7.04

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

Larson Engineering Inc. Marit #1-24  
 562 West State Road #4 Olmitz 67564+8561 24/18S/30W Lane  
 Job Ticket: 16115 DST#: 5  
 ATTN: Bob Lewellyn Test Start: 2010.09.04 @ 22:49:00

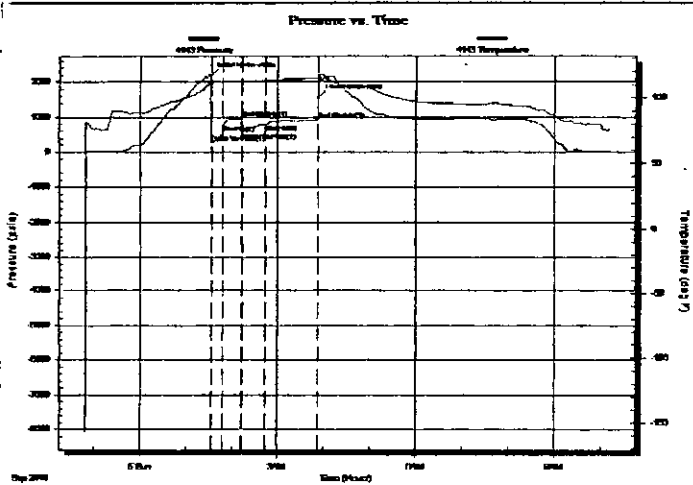
## GENERAL INFORMATION:

Formation: **Lansing "L" Zone**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: 01:34:00 Tester: **Dylan E. Ellis**  
 Time Test Ended: 10:18:00 Unit No: **3345-Dighton-30**

Interval: **4246.00 ft (KB) To 4270.00 ft (KB) (TVD)** Reference Elevations: **2854.00 ft (KB)**  
 Total Depth: **4270.00 ft (KB) (TVD)** **2847.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **7.00 ft**

**Serial #: 4143 Inside**  
 Press@RunDepth: **919.62 psia @ 4266.00 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2010.09.04** End Date: **2010.09.05** Last Calib.: **2010.09.05**  
 Start Time: **22:49:00** End Time: **10:18:00** Time On Btrc: **2010.09.05 @ 01:32:15**  
 Time Off Btrc: **2010.09.05 @ 03:52:46**

**TEST COMMENT:** 1ST Opening 15 Minutes strong blow/Blow blew to bottom of a 5 gallon bucket of water  
 1ST Shut-In 30 Minutes yes had blow back  
 2ND Opening 30 Minutes not as strong as a blow but still blew to the bottom of a 5 gallon bucket of water in 1 minute



## PRESSURE SUMMARY

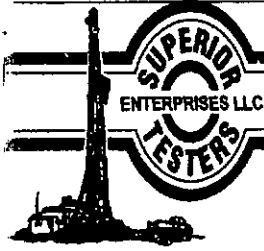
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2173.64	111.17	Initial Hydro-static
2	274.91	111.91	Open To Flow (1)
17	529.73	112.44	Shut-in(1)
42	950.46	112.48	End Shut-in(1)
43	569.17	112.50	Open To Flow (2)
72	805.33	113.45	Shut-in(2)
140	919.62	115.40	End Shut-in(2)
141	1543.14	117.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Oil and Water cut Mud	0.30
0.00	14% Oil 60% 26% Water	0.00
60.00	Lightly Watery Mud cut Oil	0.30
0.00	10% Gas 45% Oil 20% Mud 15% Water	0.00
60.00	Oil cut Mud Oil 50% Mud 50%	0.30
504.00	Slightly Mud cut Gassy Oil	7.04

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc.  
 562 West State Road #4 Olmitz 67564+8561  
 ATTN: Bob Lewellyn

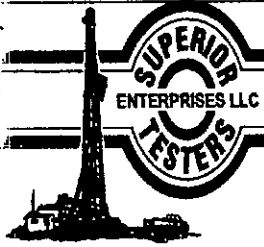
**Marit #1-24**  
**24/18S/30W Lane**  
 Job Ticket: 16115      **DST#: 5**  
 Test Start: 2010.09.04 @ 22:49:00

**Tool Information**

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 182.83 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.83 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4246.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4223.00	
Shut-In Tool	5.00			4228.00	
Hydroic Tool	5.00			4233.00	
Jars	6.00			4239.00	
Safety Joint	2.00			4241.00	
Packer	5.00			4246.00	24.00 Bottom Of Top Packer
Perforations	19.00			4265.00	
Recorder	1.00	4143	Inside	4266.00	
Recorder	1.00	8400	Outside	4267.00	
Bullnose	3.00			4270.00	24.00 Anchor Tool
<b>Total Tool Length:</b>	<b>48.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc.  
 562 West State Road #4 Oritz 67564+8561  
 ATTN: Bob Lewellyn

Marit #1-24  
 24/18S/30W Lane  
 Job Ticket: 16115      DST#: 5  
 Test Start: 2010.09.04 @ 22:49:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psia		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

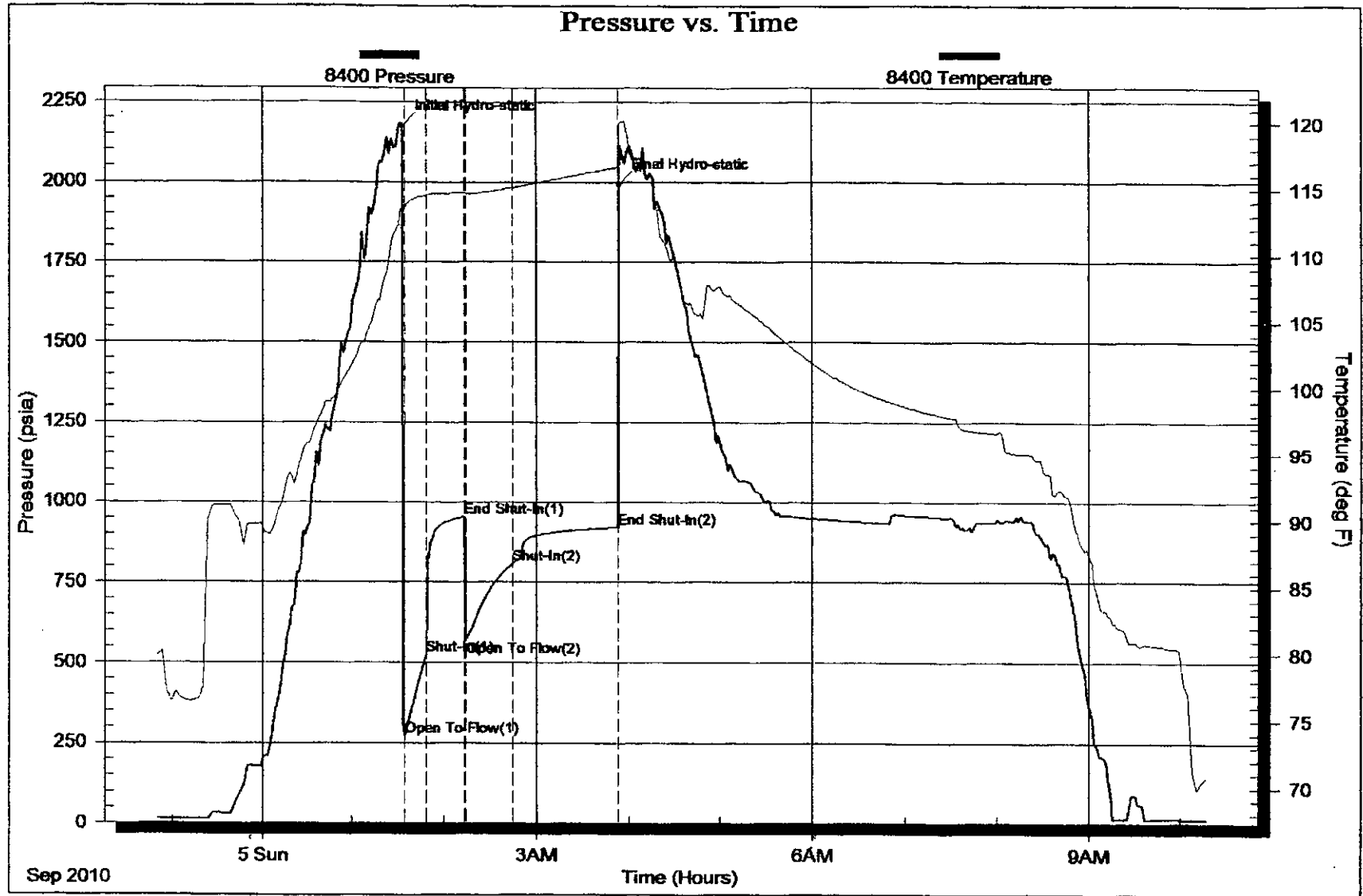
Length ft	Description	Volume bbl
60.00	Slightly Oil and Water cut Mud	0.295
0.00	14% Oil 60% 26% Water	0.000
60.00	Lightly Watery Mud cut Oil	0.295
0.00	10% Gas 45% Oil 20% Mud 15% Water	0.000
60.00	Oil cut Mud Oil 50% Mud 50%	0.295
504.00	Slightly Mud cut Gassy Oil	7.044
0.00	8% Gas 80% Oil 12% Mud	0.000
504.00	Slightly Mud cut Gassy Oil	7.070
0.00	20% Gas 70% Oil 10% Mud	0.000
504.00	Oil and Gassy Mud	7.070
0.00	35% Gas 60% Oil 5% Mud	0.000
504.00	Slightly Mud cut Gassy Oil	7.070
0.00	10% Gas 80% Oil 10% Mud	0.000
0.00	Gravity Of Oil Corrected is 40	0.000

Total Length: 2196.00 ft      Total Volume: 29.139 bbl

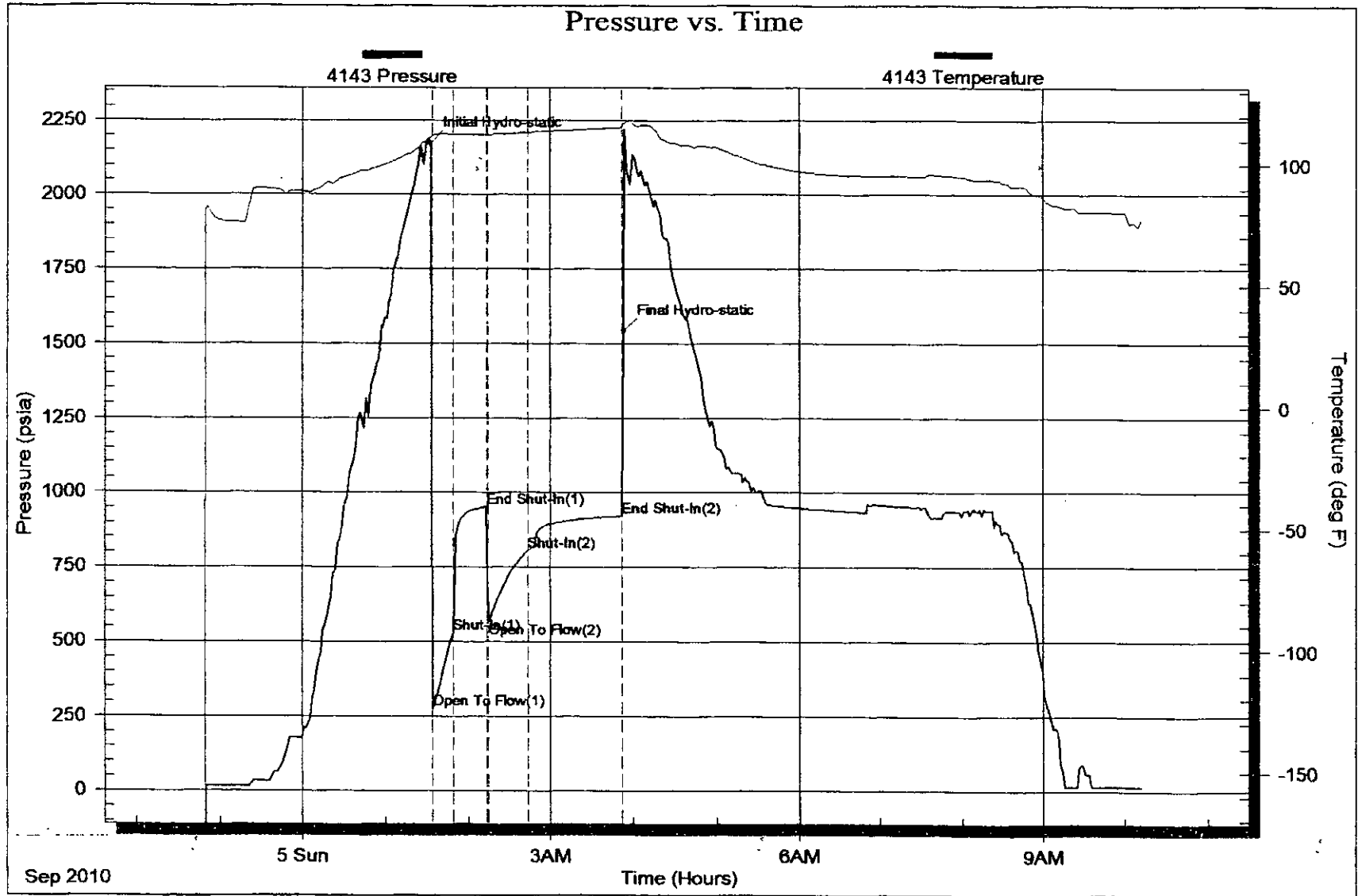
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Pulled 5 stands of drill pipe dumped oil and dropped the bar down hole and circulated for 35 - 40 minutes and came out of the hole







# Robert C. Lewellyn

*Consulting Petroleum Geologist*

P. O. Box 375  
Kechi, KS 67067-0375  
Office 316-744-2567  
Cell 316-518-0495  
*bobkewellyn@yahoo.com*

## GEOLOGICAL REPORT

### **Larson Engineering, Inc.**

Marit No. 1-24

880' FNL & 330' FWL Sec. 24-18S-30W

Lane County, Kansas

CONTRACTOR:	H D Drilling, LLC
SPUDDED:	August 26, 2010
DRILLING COMPLETED:	September 07, 2010
SURFACE CASING:	8 5/8" @ 260 KBM/175 sx,
ELECTRIC LOGS:	Log-Tech DIL CNL/CDL MEL
ELEVATIONS:	2854 KB 2847 GL
FORMATION TOPS (Electric Log):	
Anhydrite	2152 (+ 702)
Base Anhydrite	2209 (+ 645)
Heebner Shale	3898 (-1044)
Lansing-Kansas City Group	3939 (-1085)
Muncie Creek Shale	4110 (-1256)
Stark Shale	4210 (-1356)
Hushpuckney shale	4247 (-1393)
Base Kansas City	4298 (-1444)
Altamont	4352 (-1498)
Pawnee	4407 (-1553)
Myrick Station	4436 (-1582)
Fort Scott	4460 (-1606)
Cherokee	4485 (-1631)
Mississippian	4548 (-1694)
Electric Log Total Depth	4622 (-1768)

Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations, refer to the sample log in the back pages of this report.

Lansing-Kansas City Zones:

3939-3946 (A Zone)

Limestone, buff, some cream, dense with scattered finely crystalline, some chalky, slightly fossiliferous, rare trace of dead stain, zone is mostly tight with no show of live oil.

3973-3975 (B Zone)

Limestone, cream to buff, dense to finely crystalline with much chalk, poor scattered intercrystalline porosity, trace of dead stain, no show of live oil.

3993-4022 (C/D Zone)

Limestone, cream to buff, dense and chalky, some finely crystalline, zone is mostly tight with no shows of oil. Some scattered light gray chert.

4024-4038 (E Zone)

Limestone, buff to tan, dense to finely crystalline, some sub-lithographic, some cream chalky limestone, zone is mostly tight with trace of dead stain, no shows of live oil.

4041-4054 (F Zone)

Limestone, cream to buff, some grey, finely crystalline and slightly oolitic, trace of very poor intercrystalline and interoolitic porosity with scattered traces of dead stain, no shows of live oil.

4056-4063 (G Zone)

Limestone, cream to buff, finely crystalline and partly oolitic, much chalky, poor scattered oolitic porosity, no show of oil, some scattered white chert.

4122-4130 (H Zone)

Limestone, cream to buff to tan, some brown, dense to finely crystalline, partly fossiliferous, scattered poor to fair intercrystalline and interfossil porosity with poor to fair spotted stain, show of free oil, fair to good odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 1                      4110-4145

15-30-15-30; surface blow receded and died on first flow; blow did not return on second flow; recovered 20 feet of oil spotted mud. ISIP 933# FSIP 905# IFP 16-19# FFP 21-25# IHP 2070# FHP 2052# BHT 116 degrees.

4165-4168 & 4172-4175 (I Zone)

Limestone, buff, finely crystalline and fossiliferous, fair intercrystalline and interfossil porosity, poor to fair spotted stain, fair to good show of free oil, fair to good odor, poor fluorescence, poor to fair cut.

Drill Stem Test No. 2                      4154-4187

15-30-30-60; blow off bottom of bucket in 12 minutes of first flow, 2 inch blowback receded to ½"; blow off bottom of bucket in 10 minutes of second flow, 2 ½ inch blowback receded to ½ inch; recovered 425 feet of gas in drill pipe, 196 feet of gassy oil (20% gas, 80% oil), 173 feet of gassy mud cut oil (15% gas, 65% oil, 20% mud). ISIP 1061# FSIP 1095# IFP 25-90# FFP 98-162# IHP 2110# FHP 2080# BHT 119 degrees.

4187-4198 (J Zone)

Limestone, buff to tan, finely crystalline and coarsely oolitic, good ooliticastic porosity with fair to good spotted stain, trace of saturated stain, good show of free oil, good odor, fair to good fluorescence, good cut, porosity is 50% barren.

Drill Stem Test No. 3                      4184-4215

15-30-30-60; blow off bottom of bucket in 13 minutes on first flow period, blowback on shut in; blow off bottom of bucket in 13 minutes of second flow, blowback on shut in, died; recovered 140 feet of gassy free oil (100% oil), 50 feet of slightly gassy muddy oil (10% gas, 80% oil, 10% mud), 60 feet of gassy mud cut oil with a trace of water (10% gas, 55% oil, 26% mud, 4% water), 60 feet of gassy mud cut oil (10% gas, 46% oil, 44% mud), 60 feet of gassy oil cut muddy water (5% gas, 5% oil, 15% mud, 75% water), chlorides 55,000 ppm, system chlorides 1900 ppm. ISIP 982# FSIP 980# IFP 66-231# FFP 132-212# IHP 2120# FHP 2015# BHT 117 degrees.

4221-4225 (K Zone)

Limestone, buff to tan, some scattered brown, dense to finely crystalline, fossiliferous in part, trace of oolitic, fair intercrystalline porosity, some fair interfossil porosity, fair spotted stain, fair to good show of free oil, good odor, poor fluorescence, fair cut.

Drill Stem Test No. 4                      4209-4240

15-30-30-60; weak blow built to six inches on first flow period, no blowback; weak blow, built to bottom of bucket on second flow period, no blowback; recovered 60 feet of mud cut oil (50% oil, 50% mud), 60 feet of slightly watery oil cut mud (10% oil, 80% mud, 10% water), 60 feet of mud cut water with a trace of oil (20% mud, 80% water), 60 feet

of mud cut water with oil skim (.5% oil, 10% mud, 89.5% water), 60 feet of mud cut water with oil skim (1% oil, 20% mud, 79% water). ISIP 1000# FSIP 997# IFP 62-116# FFP 121-413# IHP 2129# FHP 2084# BHT 115 degrees. Chlorides 31,000 ppm, system chlorides 2,000 ppm.

#### 4279-4284 (Middle Creek & L Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, some poor to fair scattered intercrystalline and small vug porosity, fair spotted stain, fair show of free oil, good odor, poor fluorescence, fair cut.

#### Drill Stem Test No 5 4246-4270

15-30-30-60; blow off bottom of bucket in one minute of first flow period, blowback on shut-in; blow off bottom of bucket in one minute of second flow period, blowback on shut-in; recovered 504 feet of slightly mud cut gassy oil (10% gas, 80% oil, 10% mud), 504 feet of gassy slightly muddy oil (35% gas, 60% oil, 5% mud), 504 feet of gassy slightly muddy oil (20% gas, 70% oil, 10% mud), 504 feet of gassy slightly muddy oil (8% gas, 80% oil, 12% mud), 60 feet of heavily mud cut oil (50% oil, 50% mud), 60 feet of gassy water and mud cut oil (10% gas, 45% oil, 20% mud, 25% water), 60 feet of slightly oil and water cut mud (14% oil, 60% mud, 26% water). ISIP 951# FSIP 919# IFP 272-524# FFP 570-807# IHP 2175# FHP 1992# BHT 116 degrees. Gravity of oil is 40 degrees (corrected). Pulled five stands and drained, then reversed fluid out with sample every 60 seconds.

#### 4306-4310 (Pleasanton Zone)

Limestone, cream to buff, dense to finely crystalline and chalky, some scattered fair intercrystalline porosity, trace of poor spotted stain, trace of scattered dead stain on fracture faces, very slight show of free oil, fair to good odor, poor fluorescence, poor cut.

#### 4368-4371 (Altamont Zone)

Limestone, cream to buff, some tan, finely crystalline, trace of oolitic, scattered poor intercrystalline porosity, trace of poor spotted stain, faint odor, poor fluorescence, poor to fair cut.

#### 4413-4416 (Pawnee Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, trace of very poor intercrystalline porosity, scattered traces of very poor spotted stain, very slight show of free oil, faint odor, no fluorescence, very poor cut.

#### 4442-4445 (Myrick Station Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, poor to fair intercrystalline porosity, scattered poor spotted stain, very slight show of free oil, faint to fair odor, poor fluorescence, poor cut.

4460-4485 (Fort Scott Zone)

The upper section of the Fort Scott consisted of limestone, buff, some tan, dense to finely crystalline, trace of oolitic, some cream chalky, mostly tight, no show of oil. The lower section consisted of limestone, cream to buff, some tan, dense to finely crystalline, scattered very poor intercrystalline porosity, poor to fair spotted stain in a few pieces, slight show of free oil, faint to fair fleeting odor, poor fluorescence, poor cut.

4521-4535 (Johnson Zone)

Limestone, buff to tan, some grey, dense to finely crystalline, slightly fossiliferous, trace of very poor intercrystalline porosity, some poor vugular porosity, scattered poor to fair spotted stain, slight show of free oil, faint fleeting odor, no fluorescence, poor cut, some black flaky inclusions in dense limestone.

4535-4548 (Detrital Zone)

Scattered varicolored fresh chert with very fine grand white, tight sand and varicolored shale, no reservoir quality, no show of oil.

4548-4599 (Mississippian Zone)

Limestone, cream to buff, dense to finely crystalline and mealy, brittle, flaky, some scattered chalky, section is mostly tight with no show of oil.

4599-4622

Dolomite, tan to brown, dense to finely crystalline, trace of sucrosic, some scattered partly oolitic, some scattered chert, interval is mostly tight with no shows of oil.

4620 Rotary Total Depth

Conclusions and Recommendations:

Production casing was cemented on the No. 1-24 Marit, and it is recommended that various zones in the well be perforated and production tested as per Tom Larson and Kyle Carter.

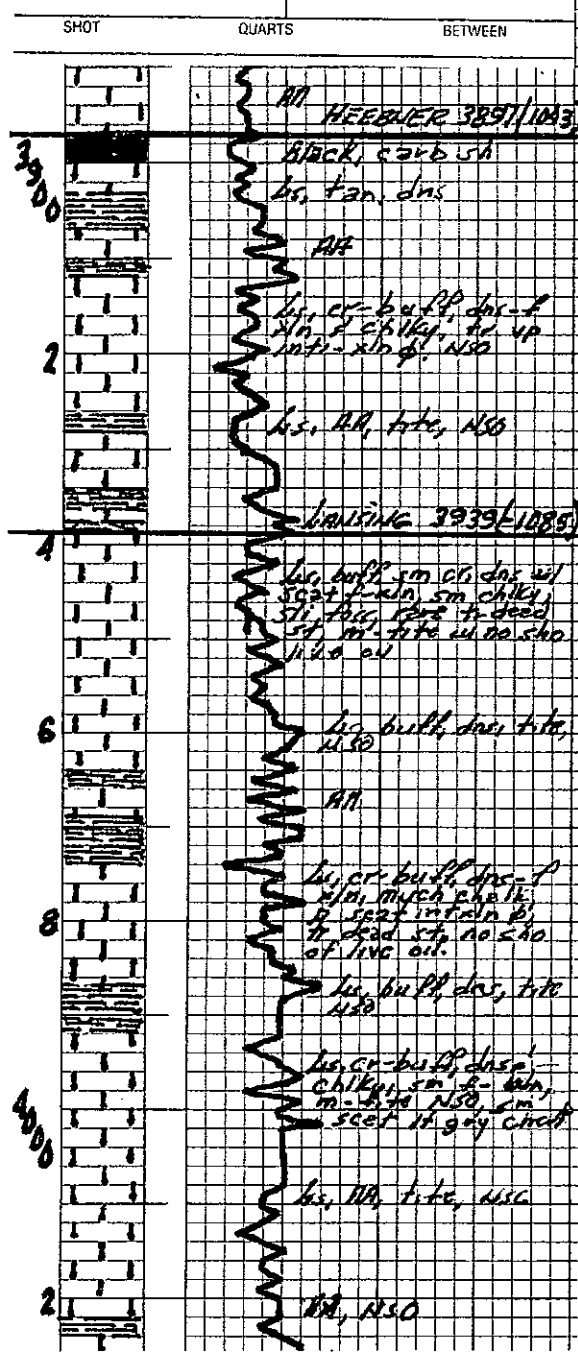
Respectfullt submitted,

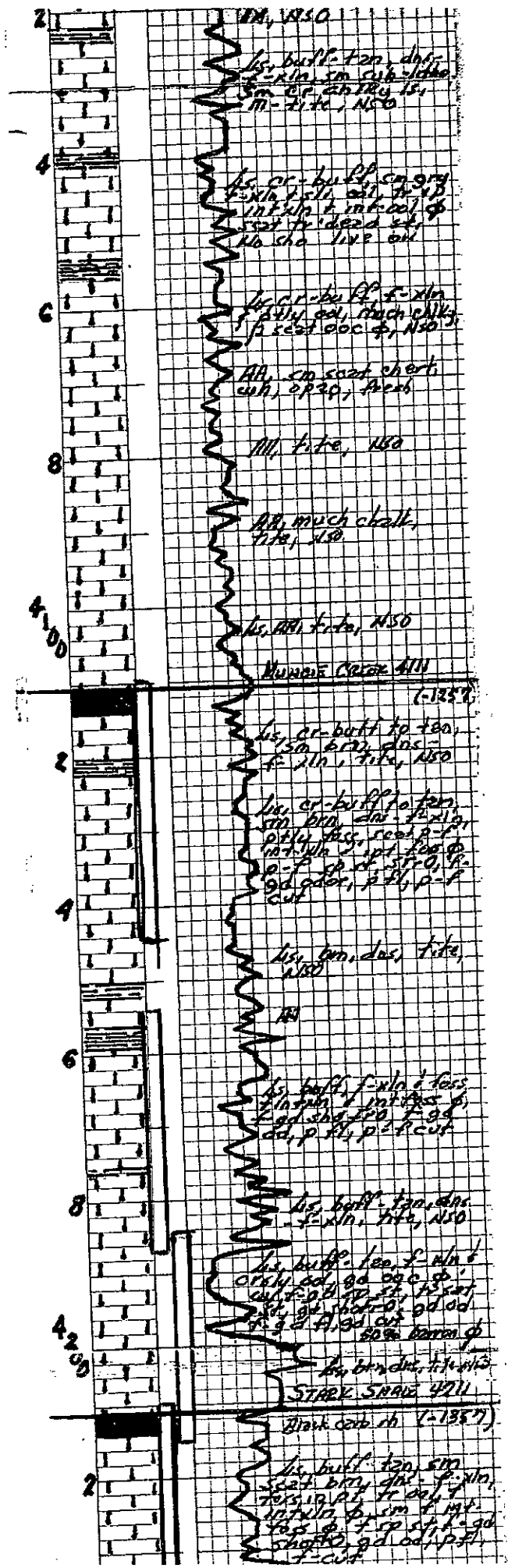
Robert C. Lewellyn  
Petroleum Geologist

KANSAS		COMPANY <b>LARSON ENGINEERING</b>	
COUNTY	LANE	FARM	WELL NO.
BLOCK		MARIT	1-24
SEC.	24	SURVEY	
		880' FNL & 330' FNL	
T.	R.	TOTAL DEPTH	
185	30W	4620	
CONTRACTOR		HD Drilg LLC	
COMMENCED		08-26-2010	
COMPLETED		09-07-2010	
REMARKS			
ALTITUDE		2854 KB	
PRODUCTION		Oil	
		Robert C. Jewell, Inc - Geol	

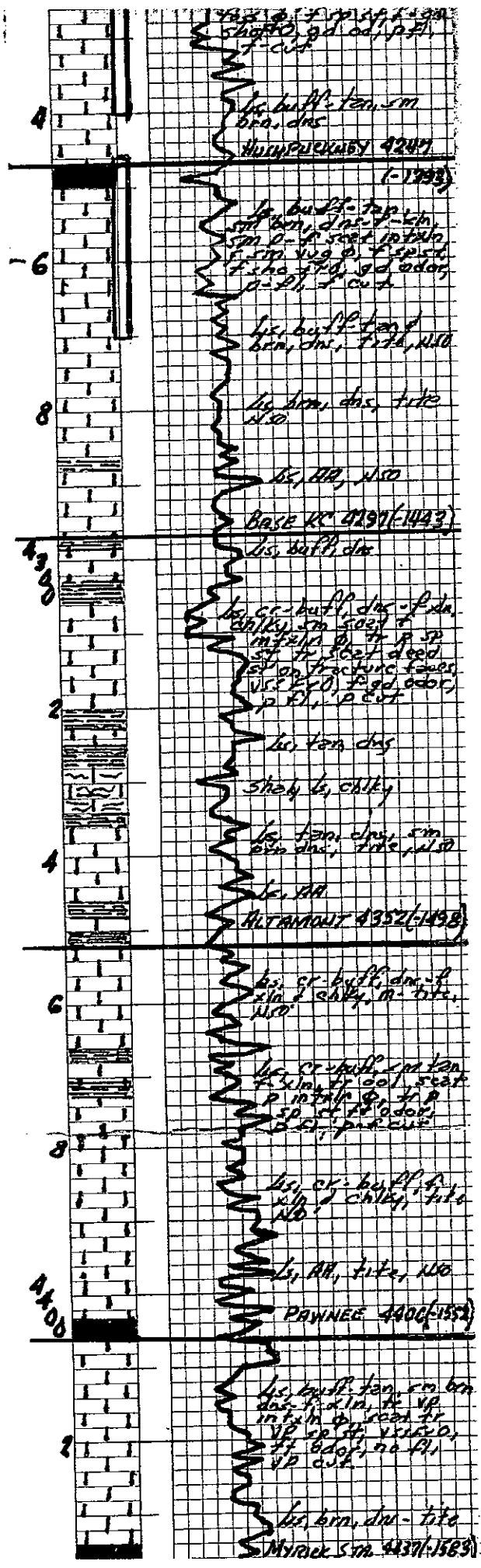
CASING RECORD

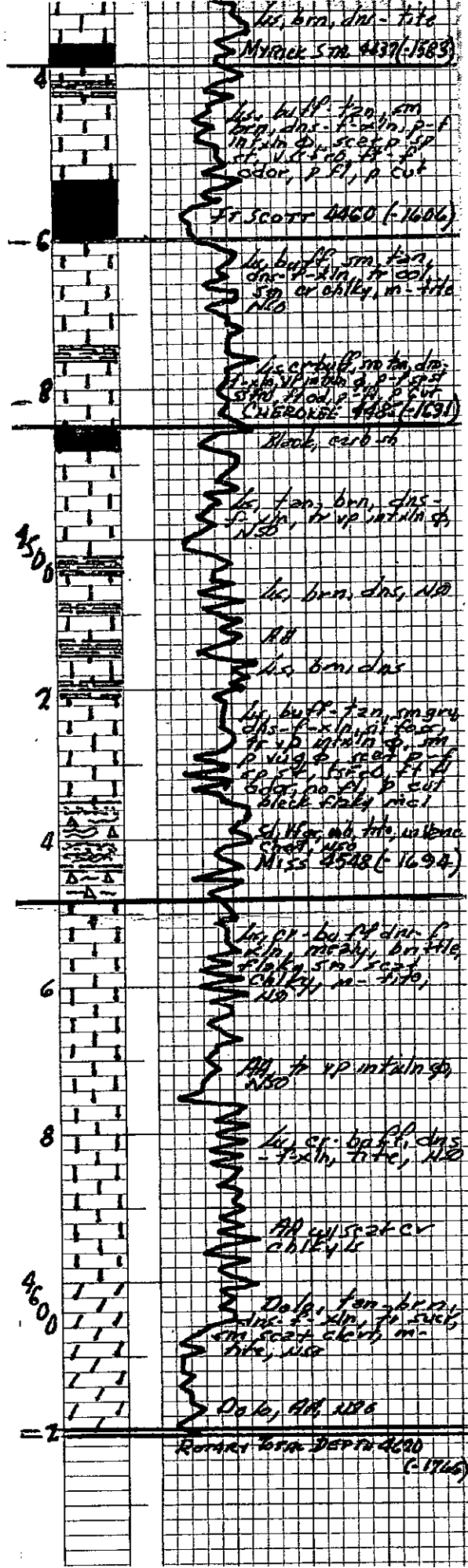
8 5/8" @ 260 KBM/175 SX













# Dual Induction Log

**DIGITAL LOG** (785) 625-3858

API No.	15-101-22,252-00-00	
Company	Larson Operating Company	
Well	Marit No. 1-24	
Field	Wildcat	
County	Lane	State
Location	880' FNL & 330' FWL	
	Sec: 24	Twp: 18 S Rge: 30 W
		Elevation 2847
		Other Services CNL/CDL MEL
		Elevation K.B. 2854 D.F. 2847 G.L. 2847

Date	9/07/2010
Run Number	One
Depth Driller	4620
Depth Logger	4622
Bottom Logged Interval	4621
Top Log Interval	250
Casing Driller	8.625 @ 260
Casing Logger	255
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2.400
Density / Viscosity	9.3   67
pH / Fluid Loss	11.5   7.2
Source of Sample	Flowline
Rm @ Meas. Temp	.75 @ 70
Rmf @ Meas. Temp	.56 @ 70
Rmc @ Meas. Temp	1.01 @ 70
Source of Rmf / Rmc	Charts
Rm @ BHT	.42 @ 124
Operating Rig Time	4 Hours
Max Rec. Temp. F	124
Equipment Number	4
Location	Hays
Recorded By	K. Bange
Witnessed By	Bob Lewellyn

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

### Comments

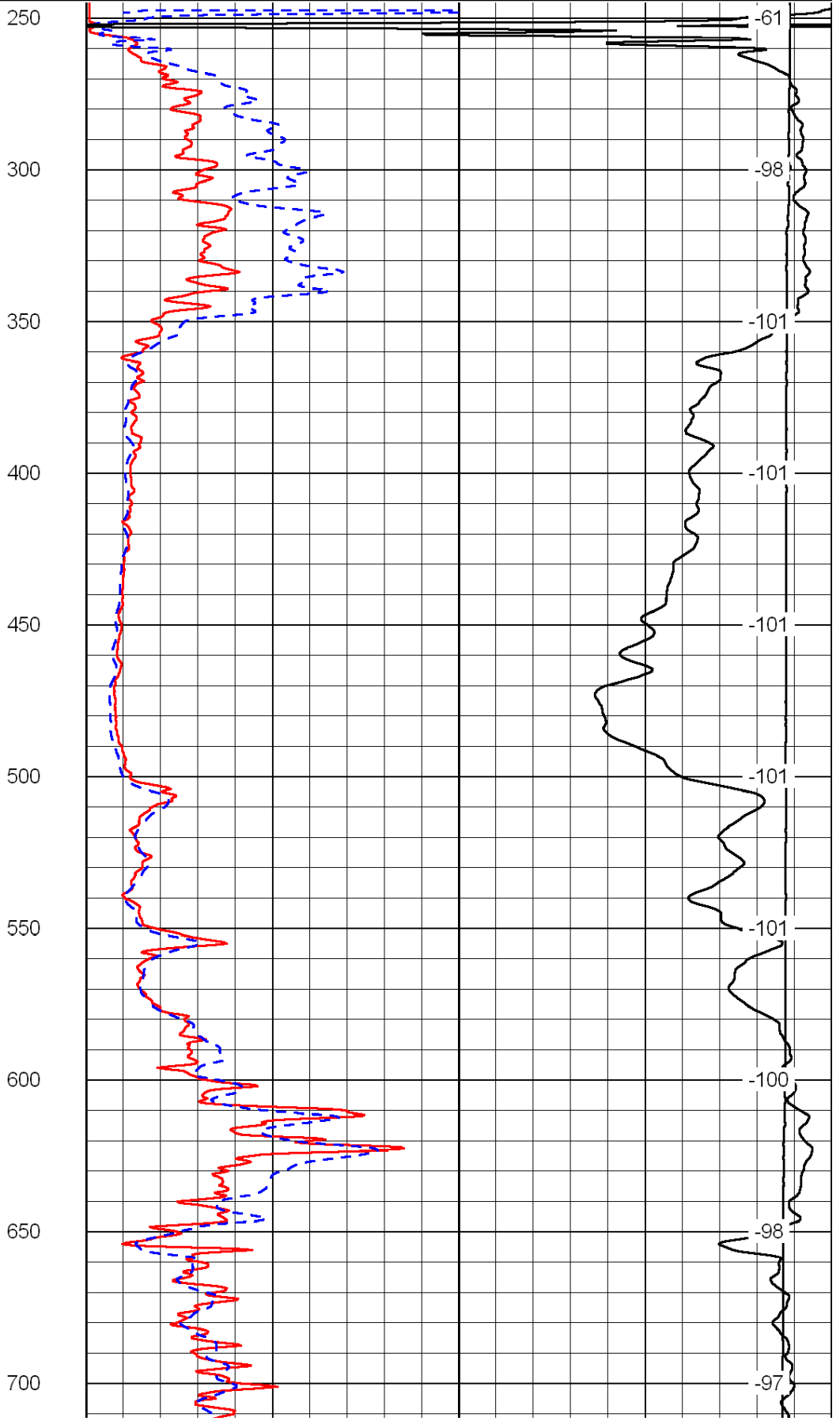
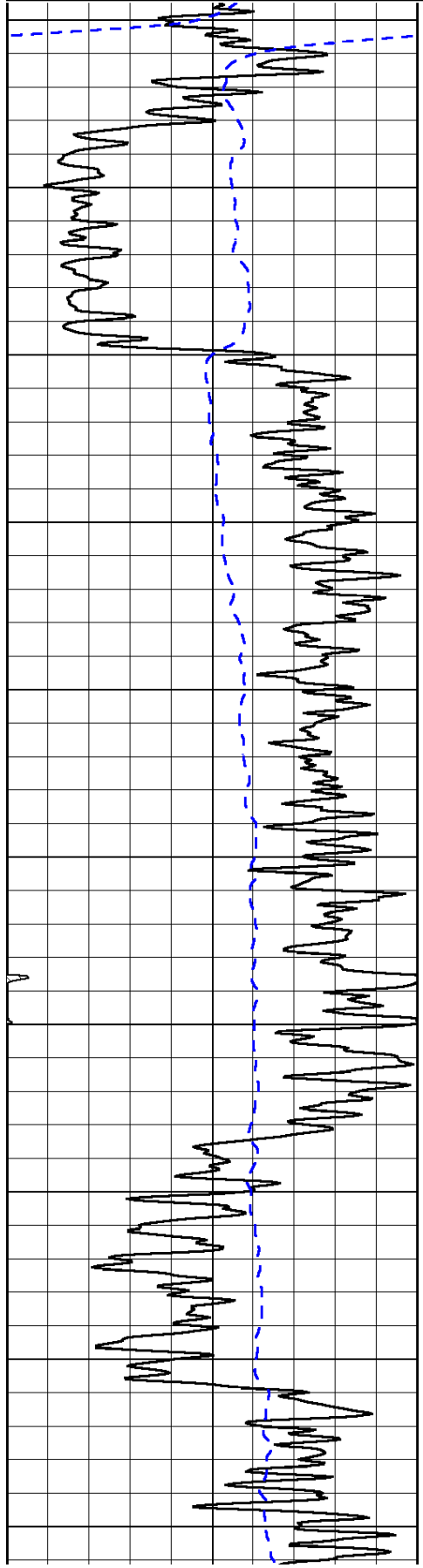
Thank you for using Log-Tech, Inc.  
(785) 625-3858

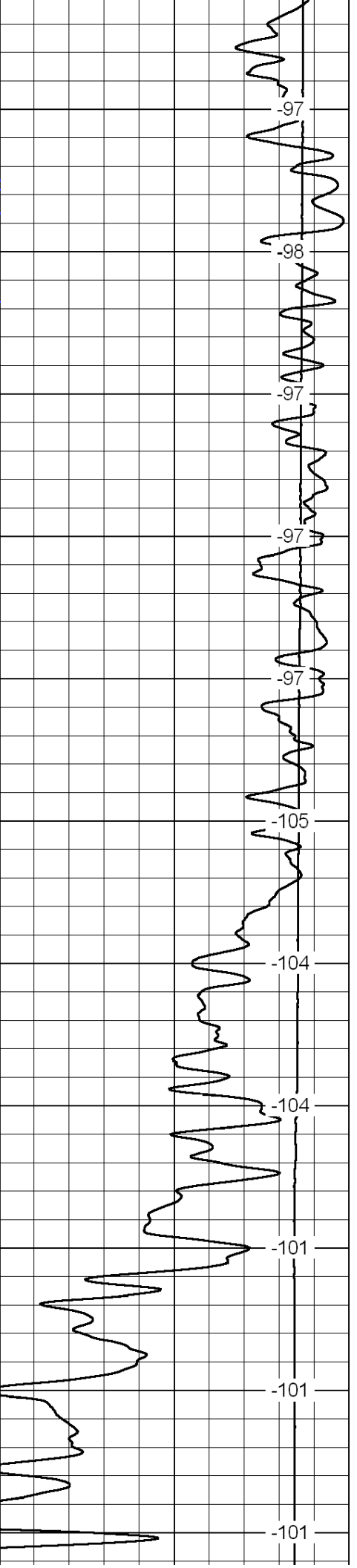
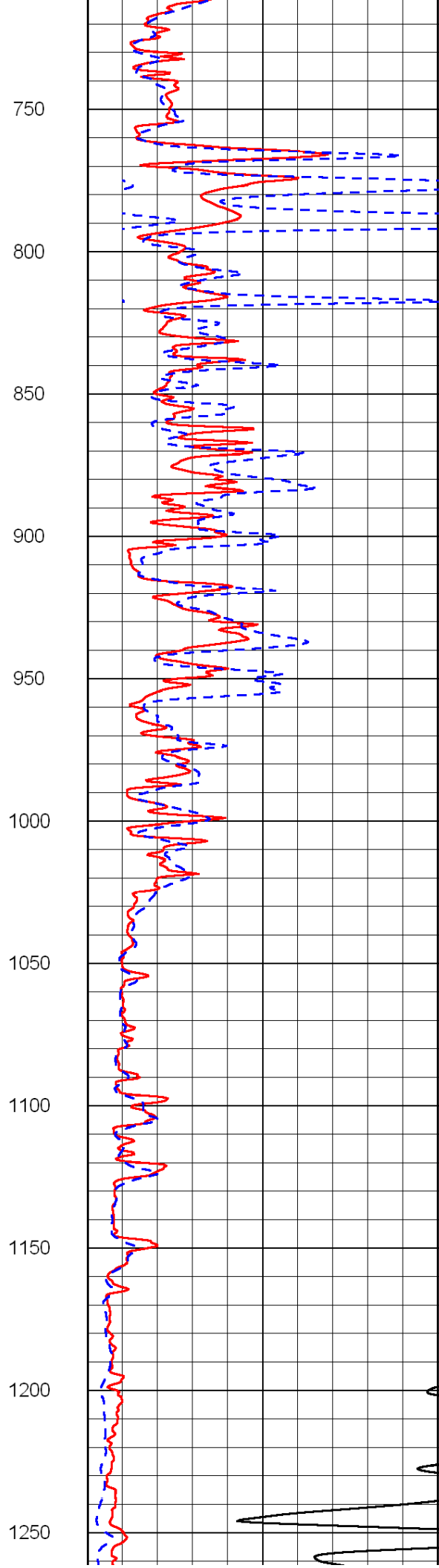
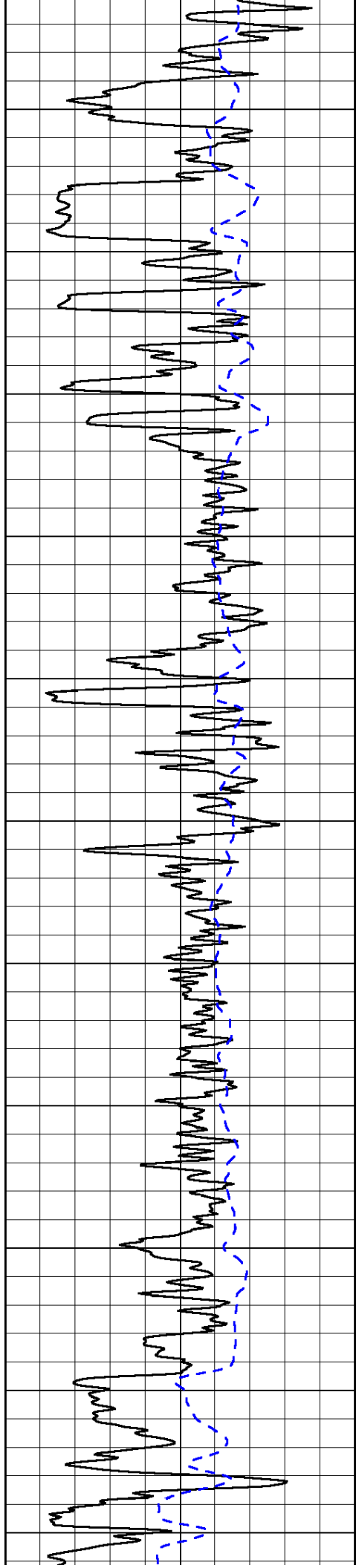
Dighton, 7 W, 1/4 S, E into

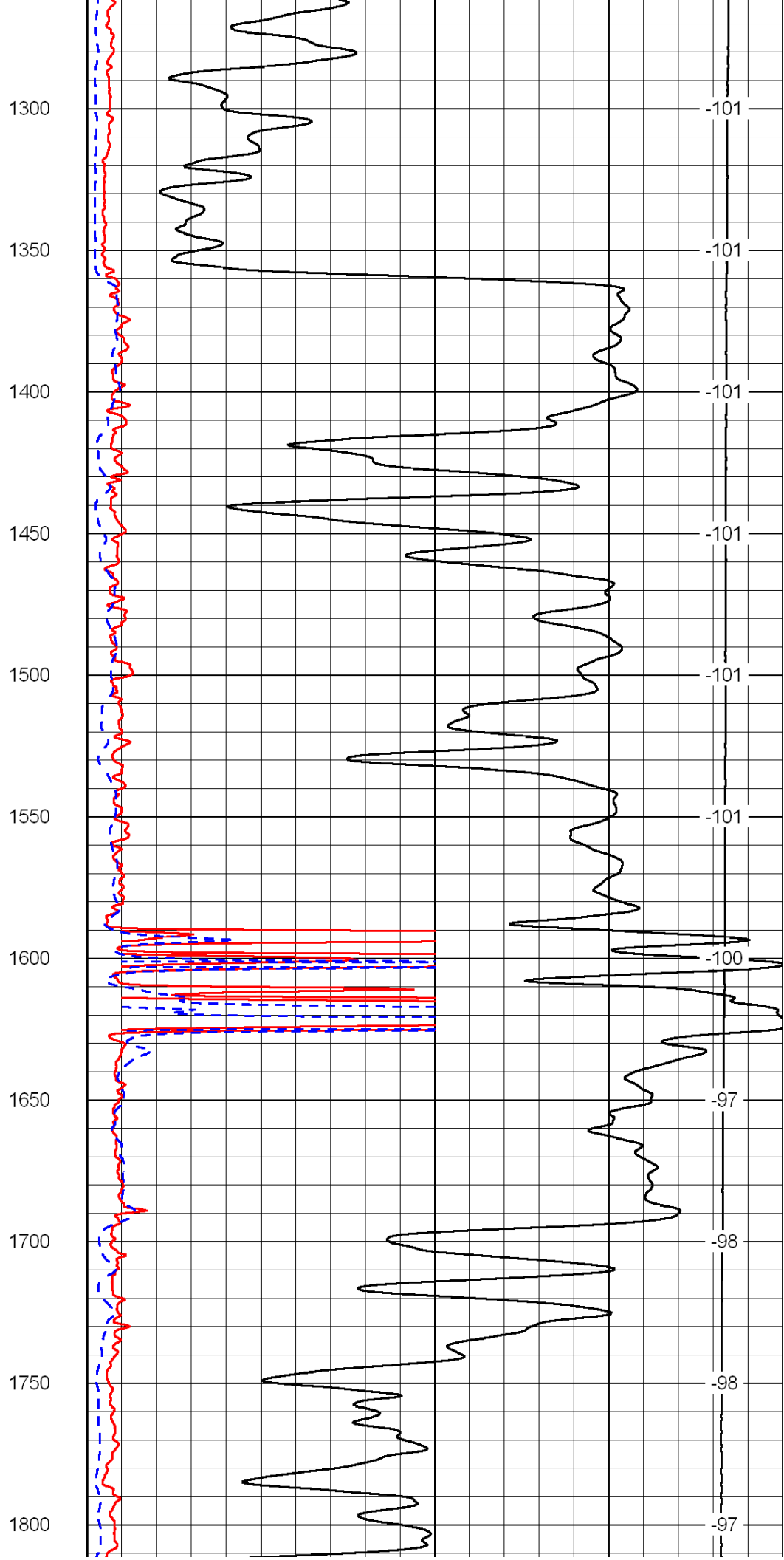
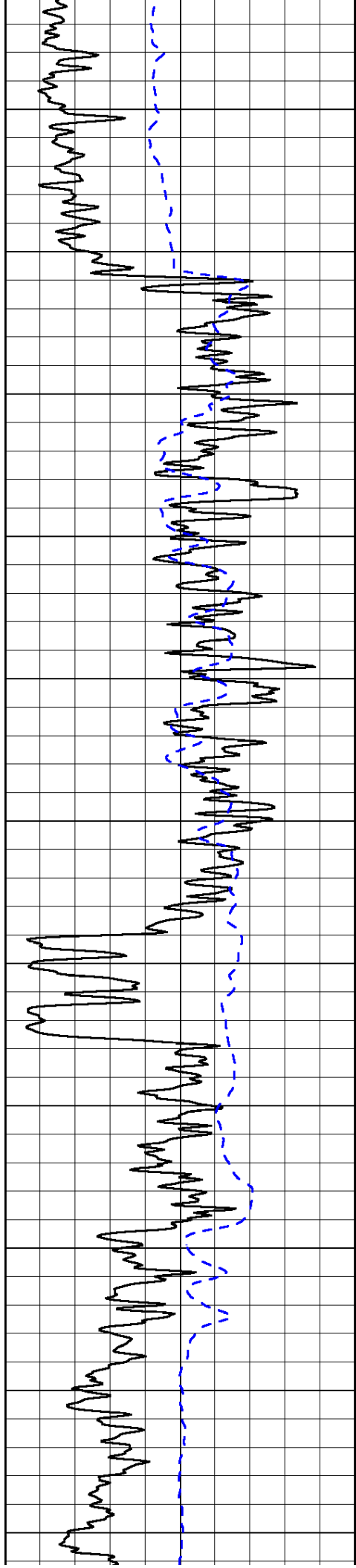
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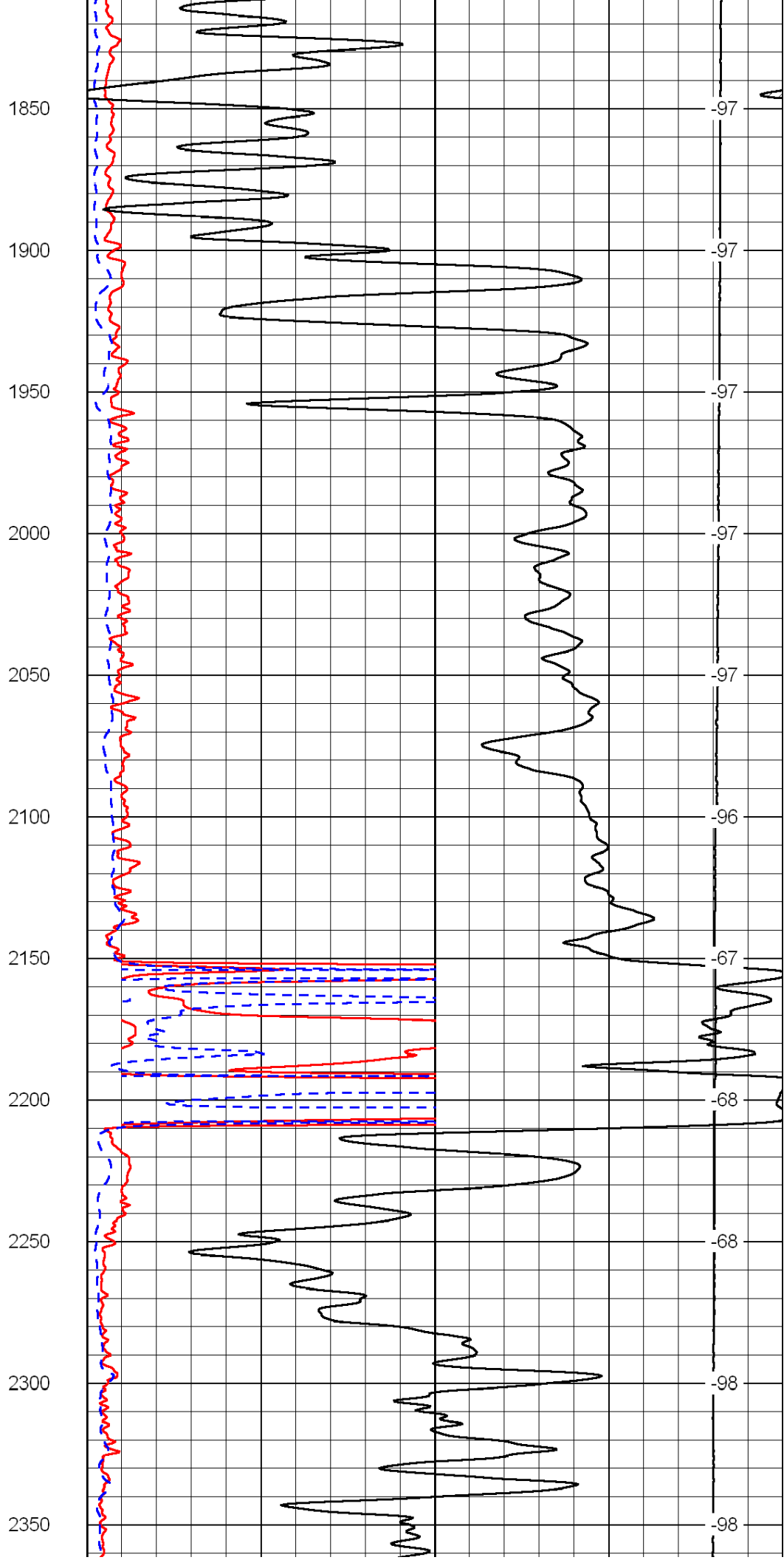
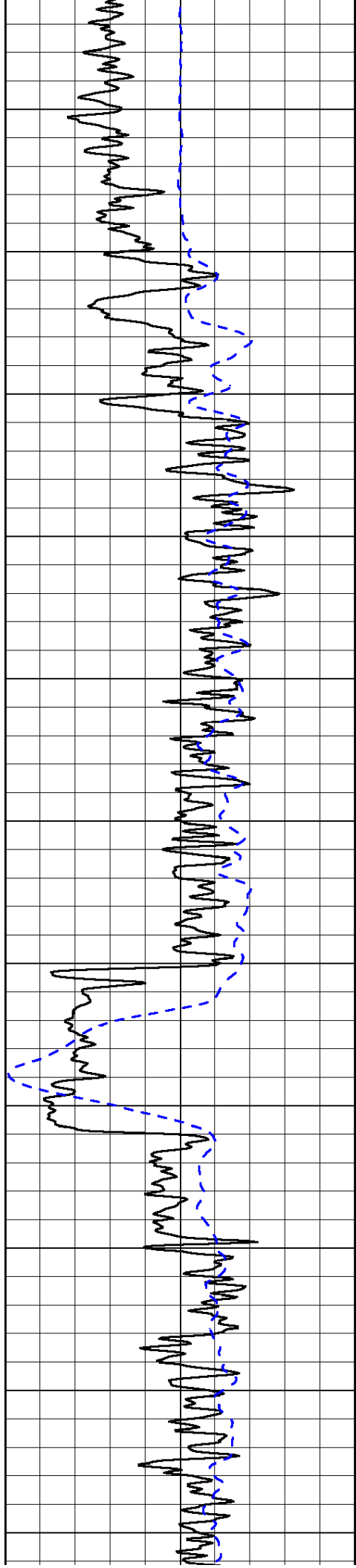
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

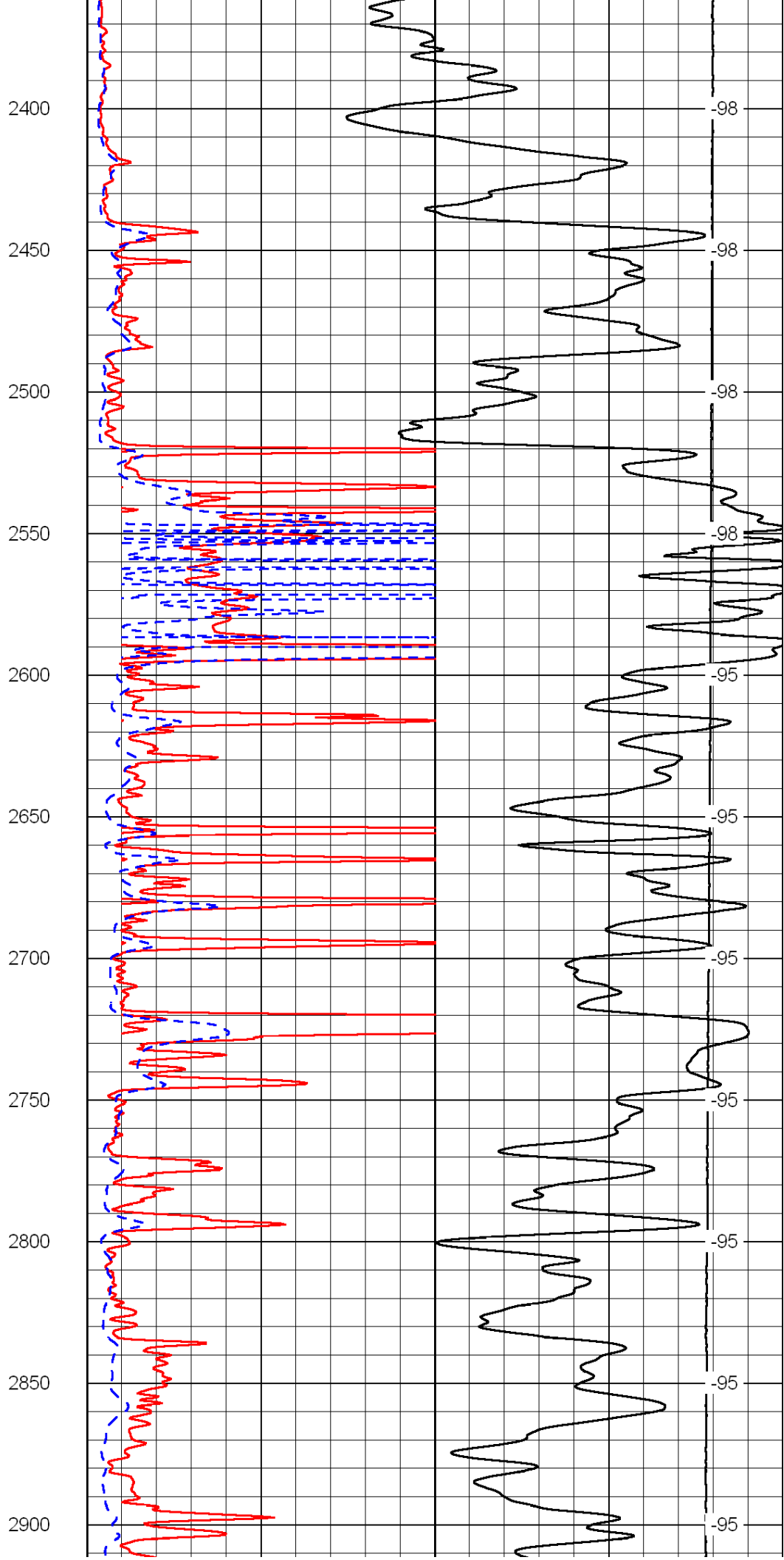
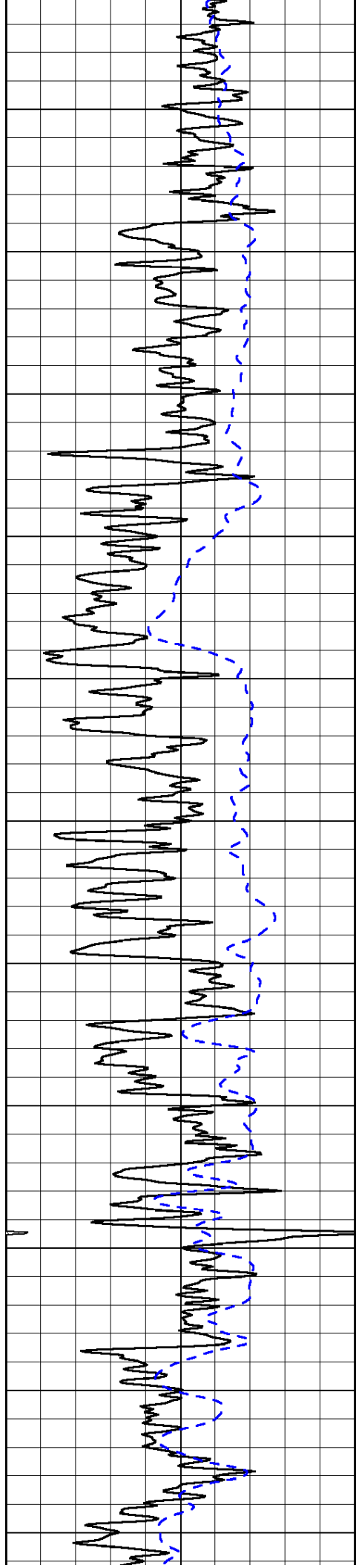
LSPD



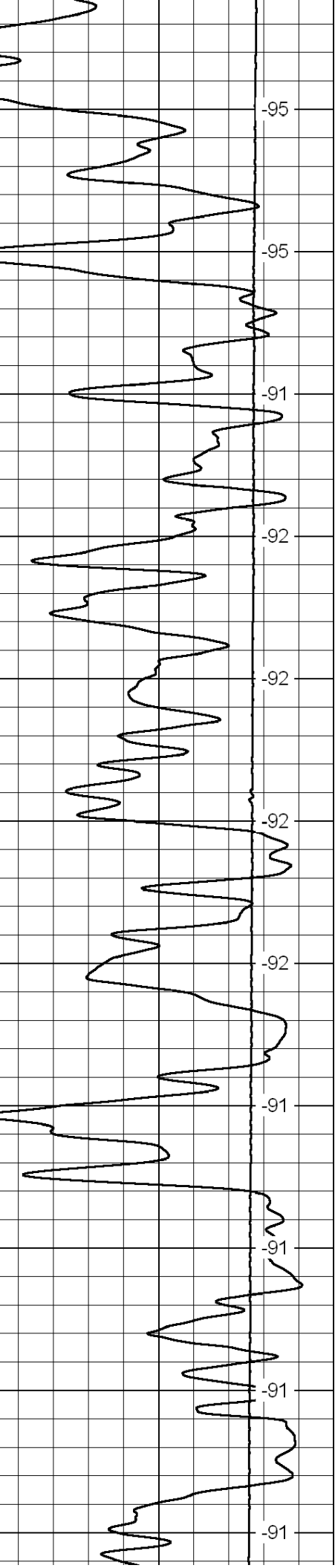
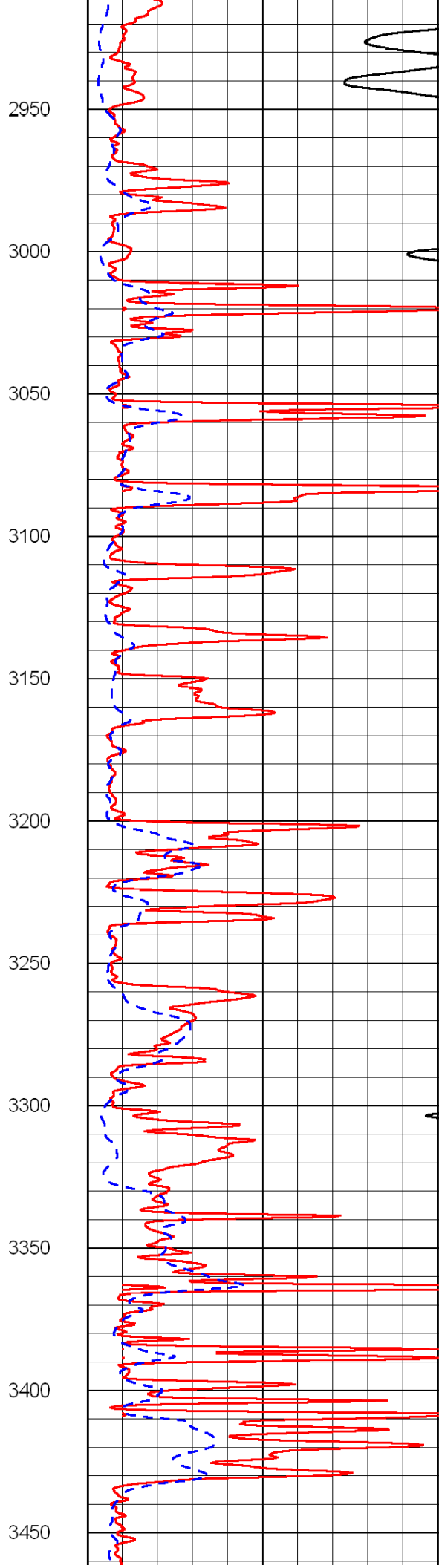
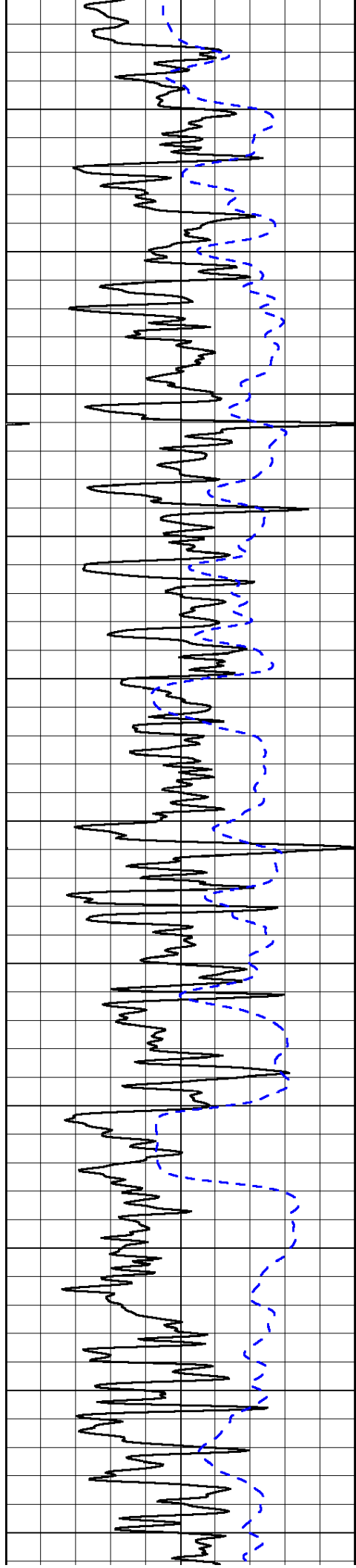


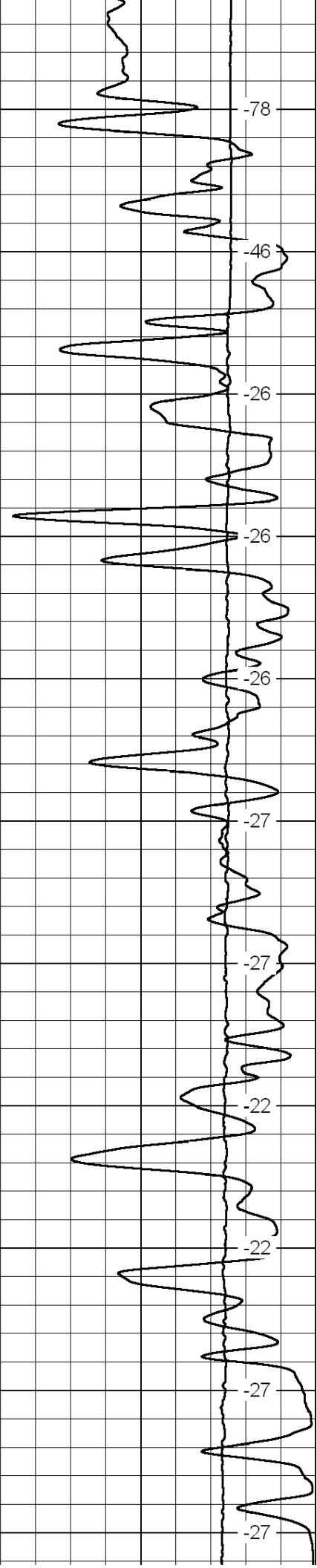
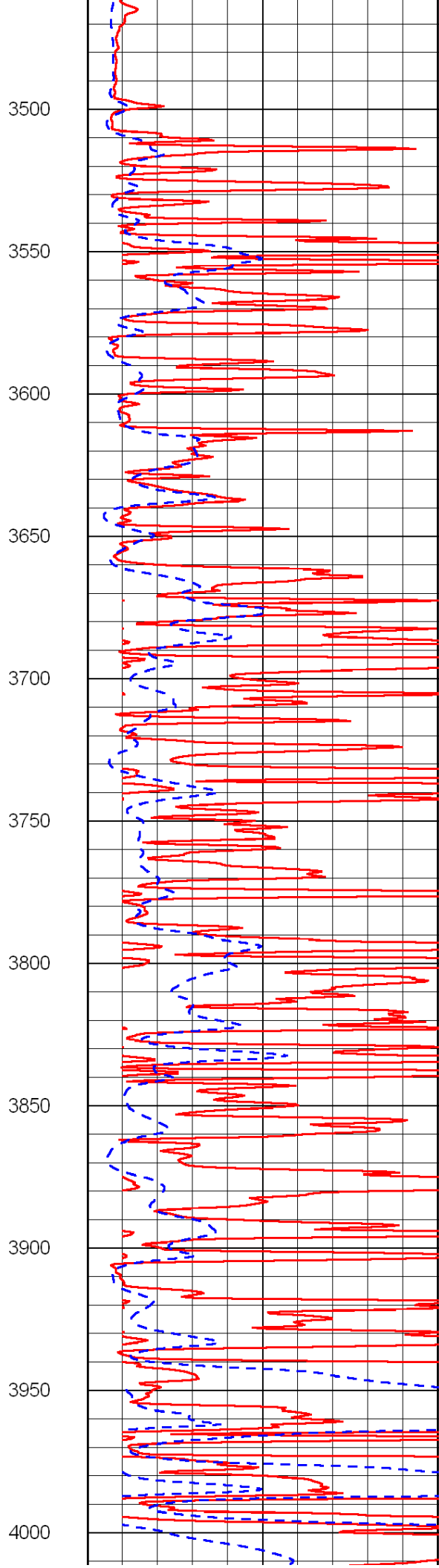
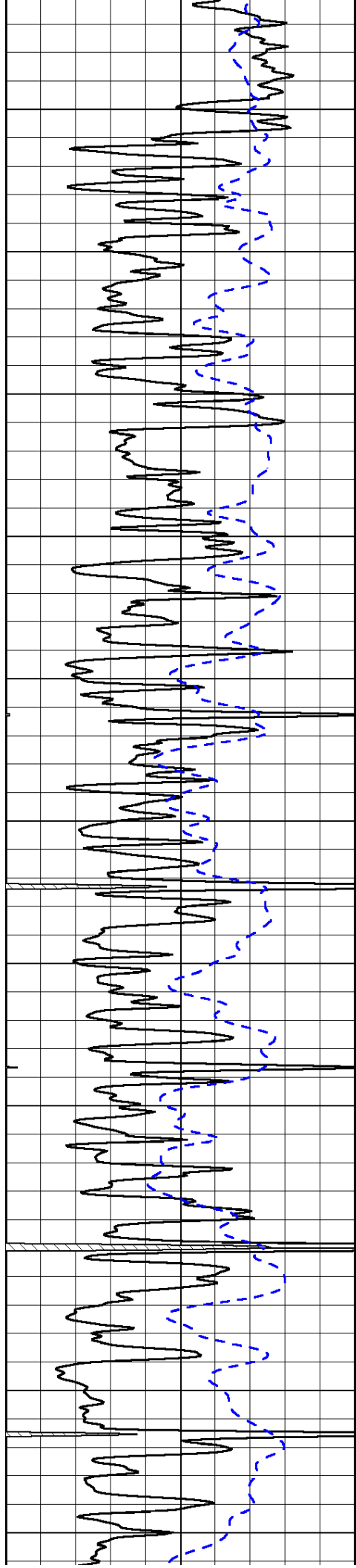


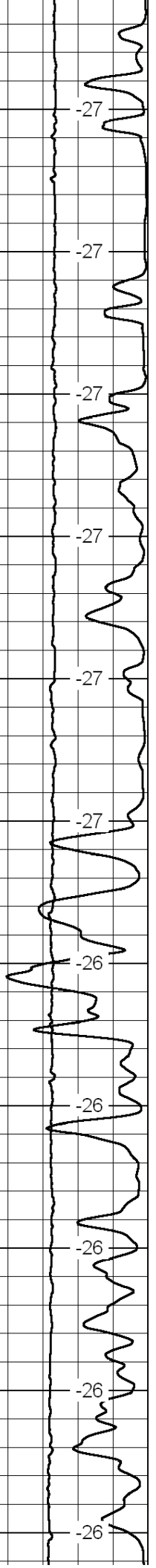
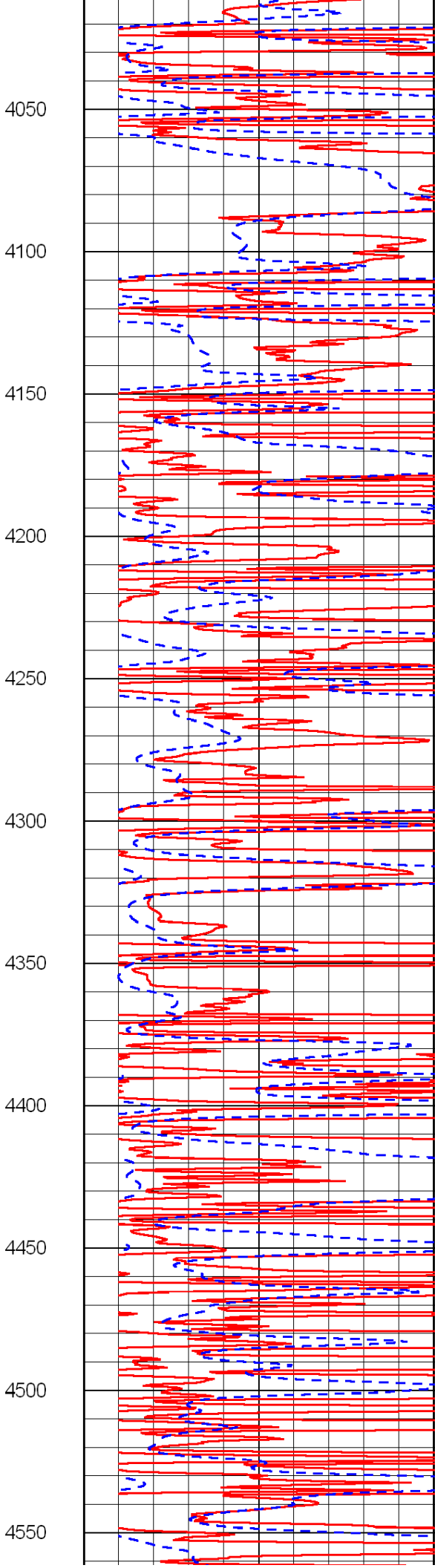
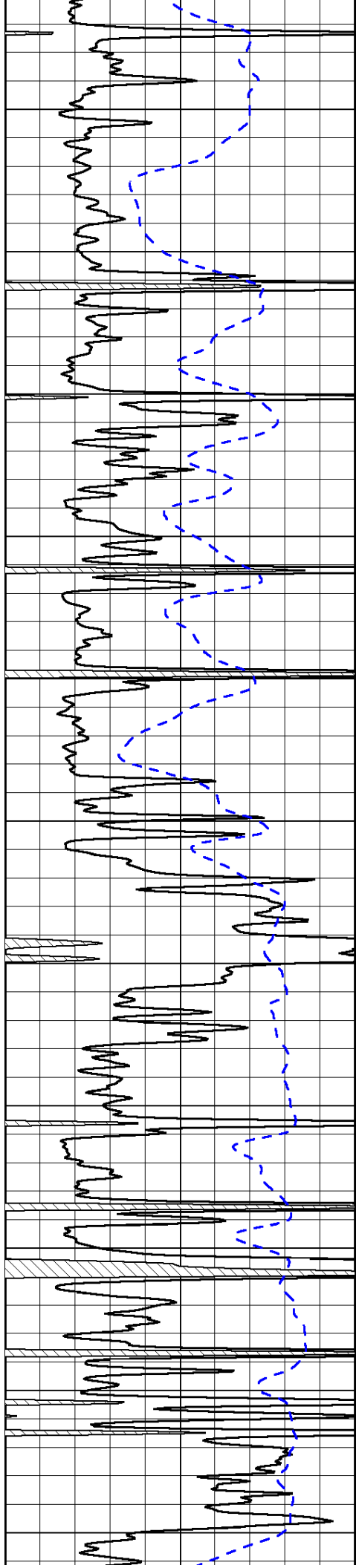


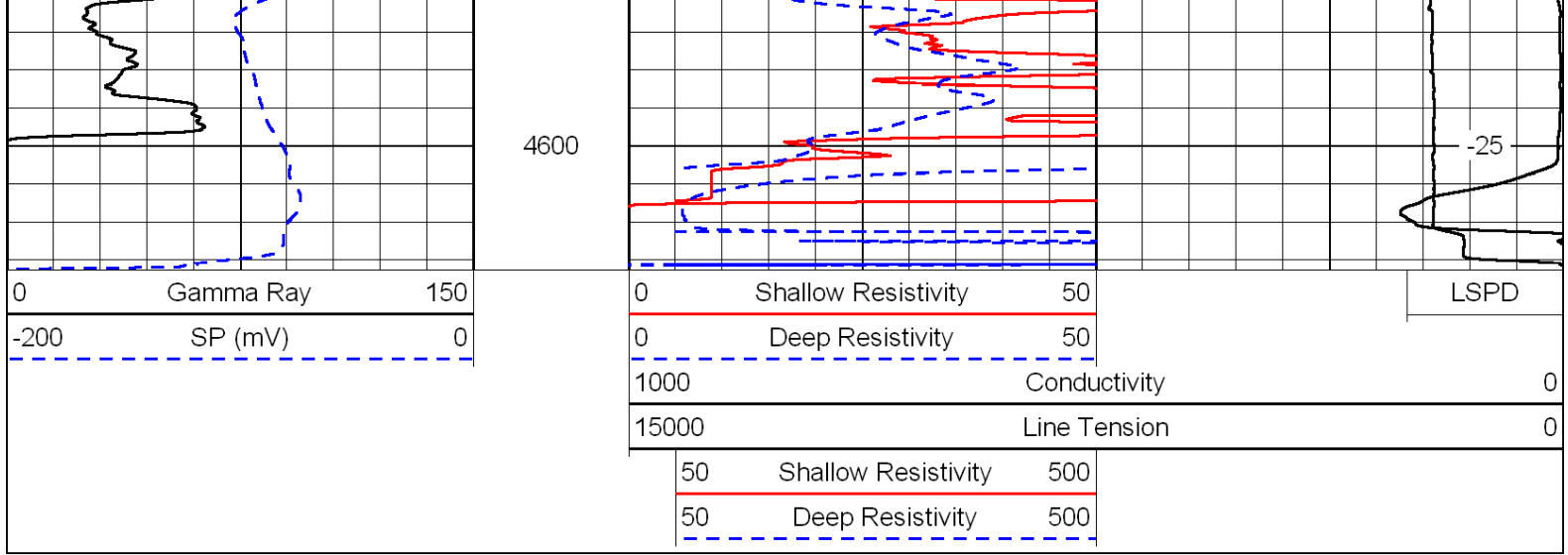




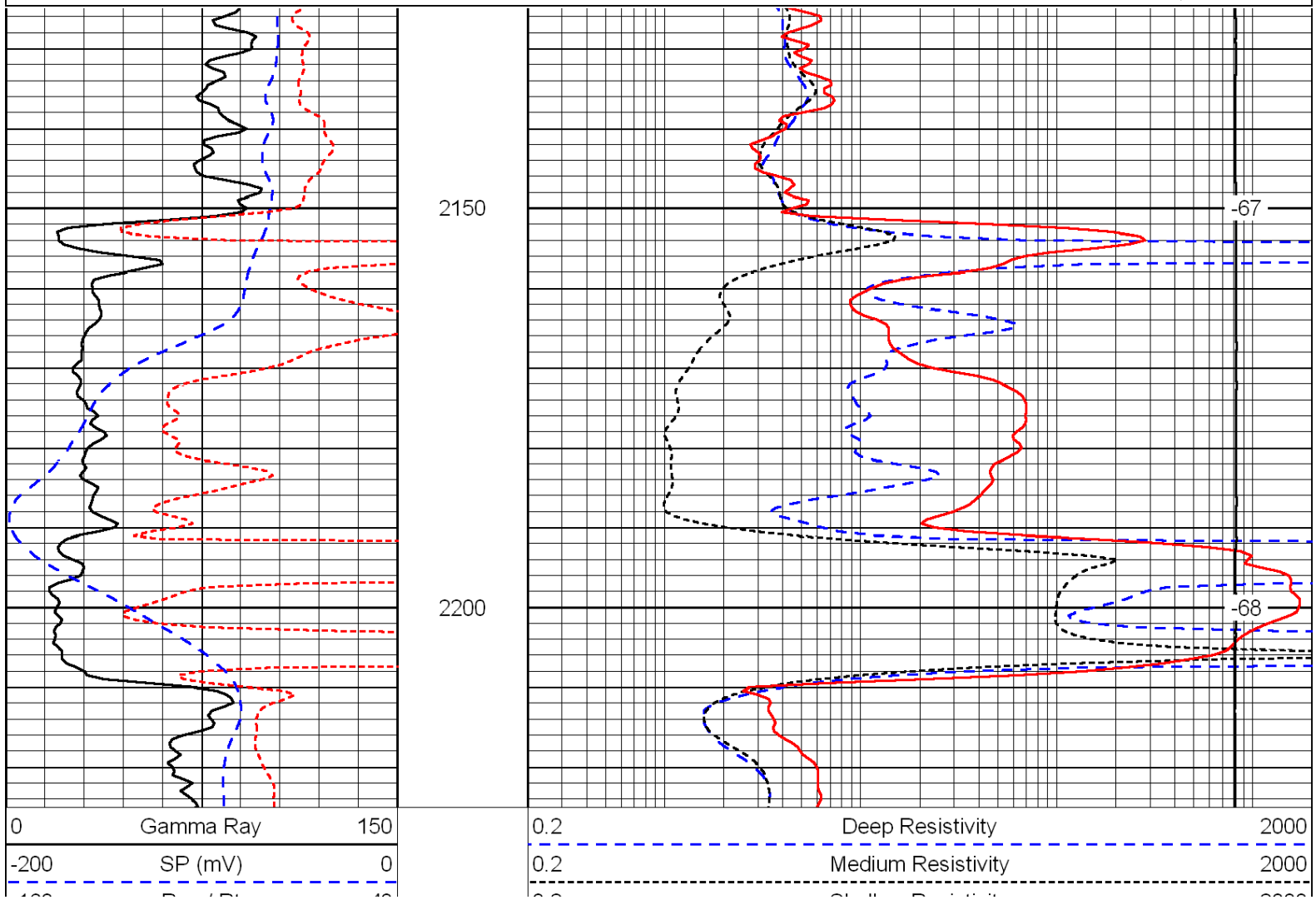
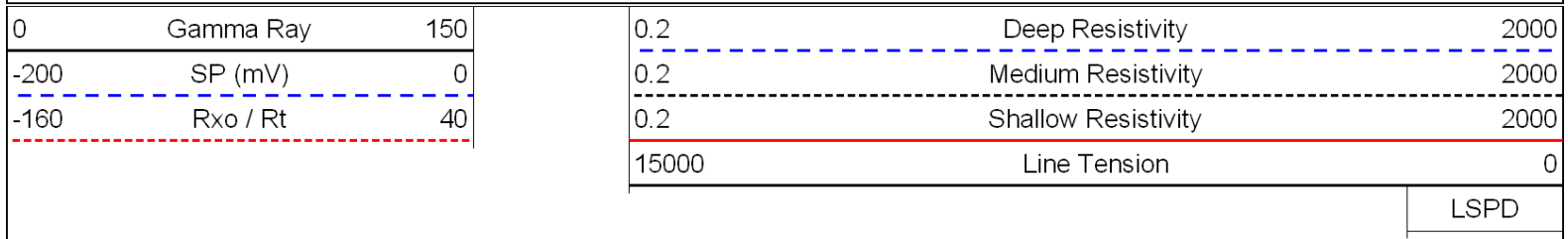








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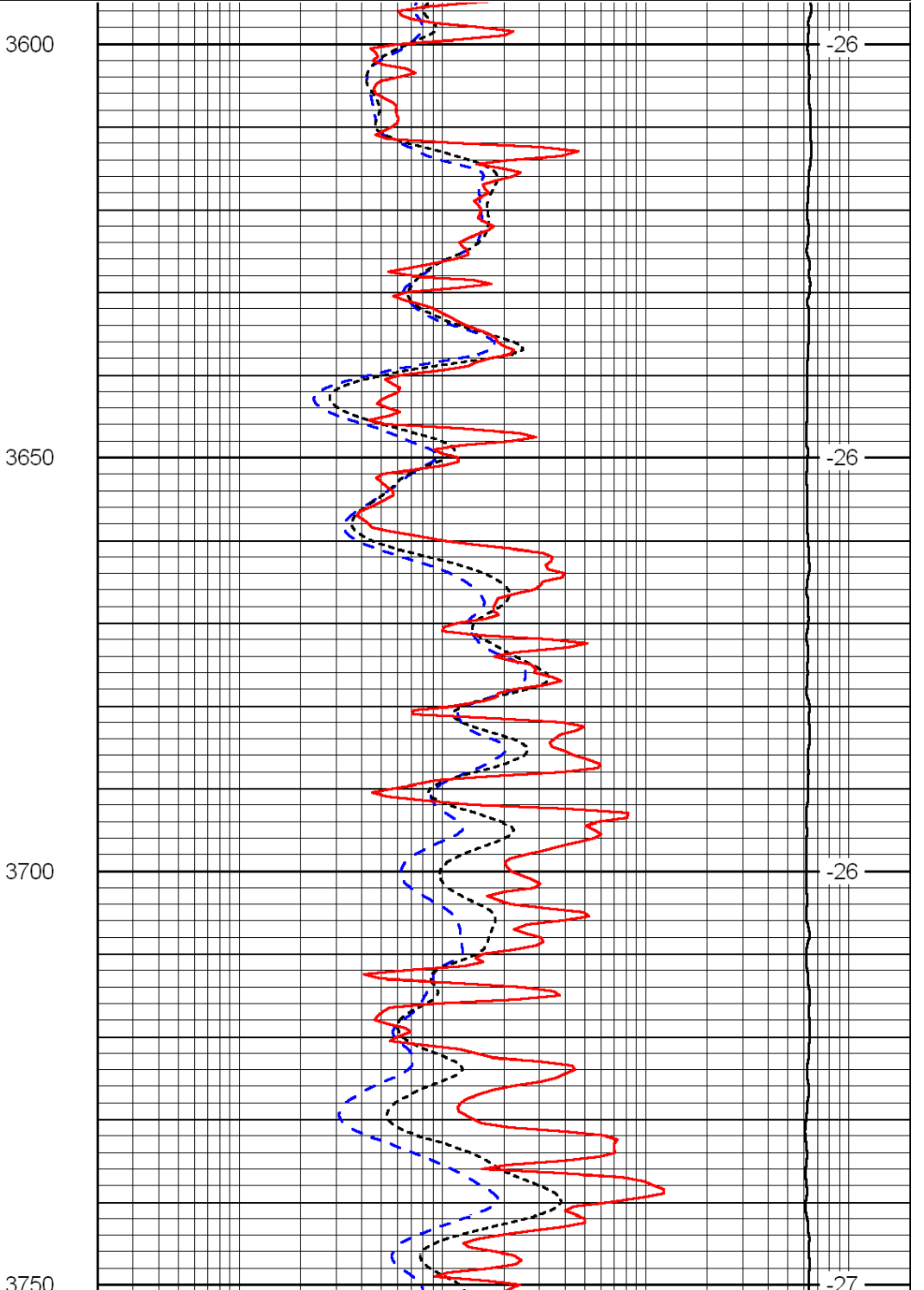
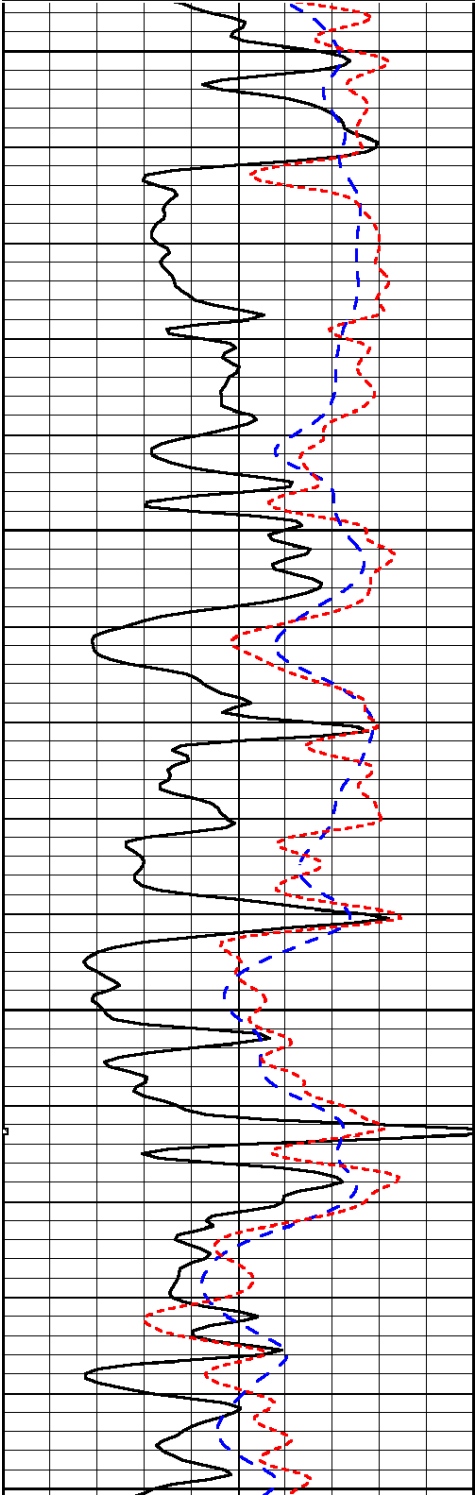
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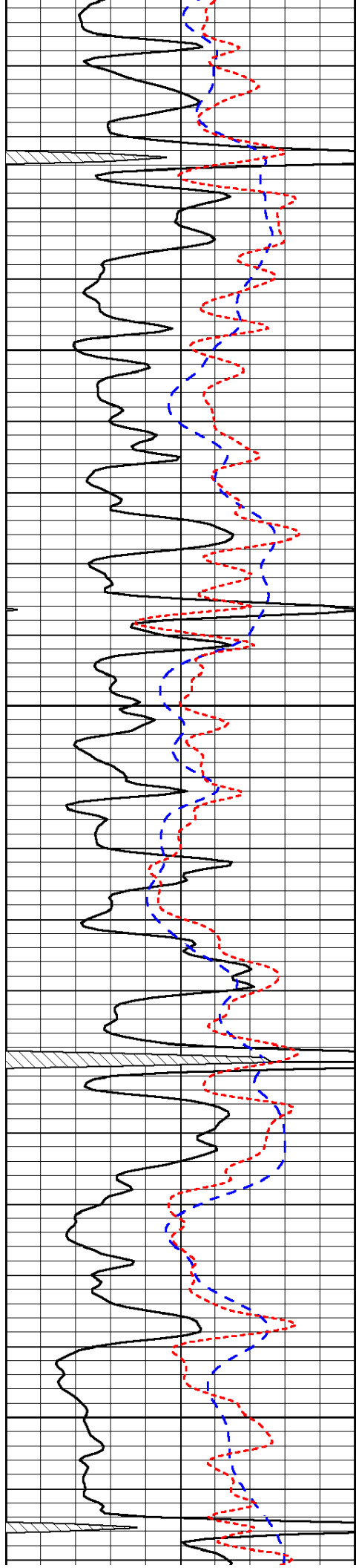
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-200	SP (mV)	0
-160	Rxo / Rt	40

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15000	Line Tension	0
		LSPD



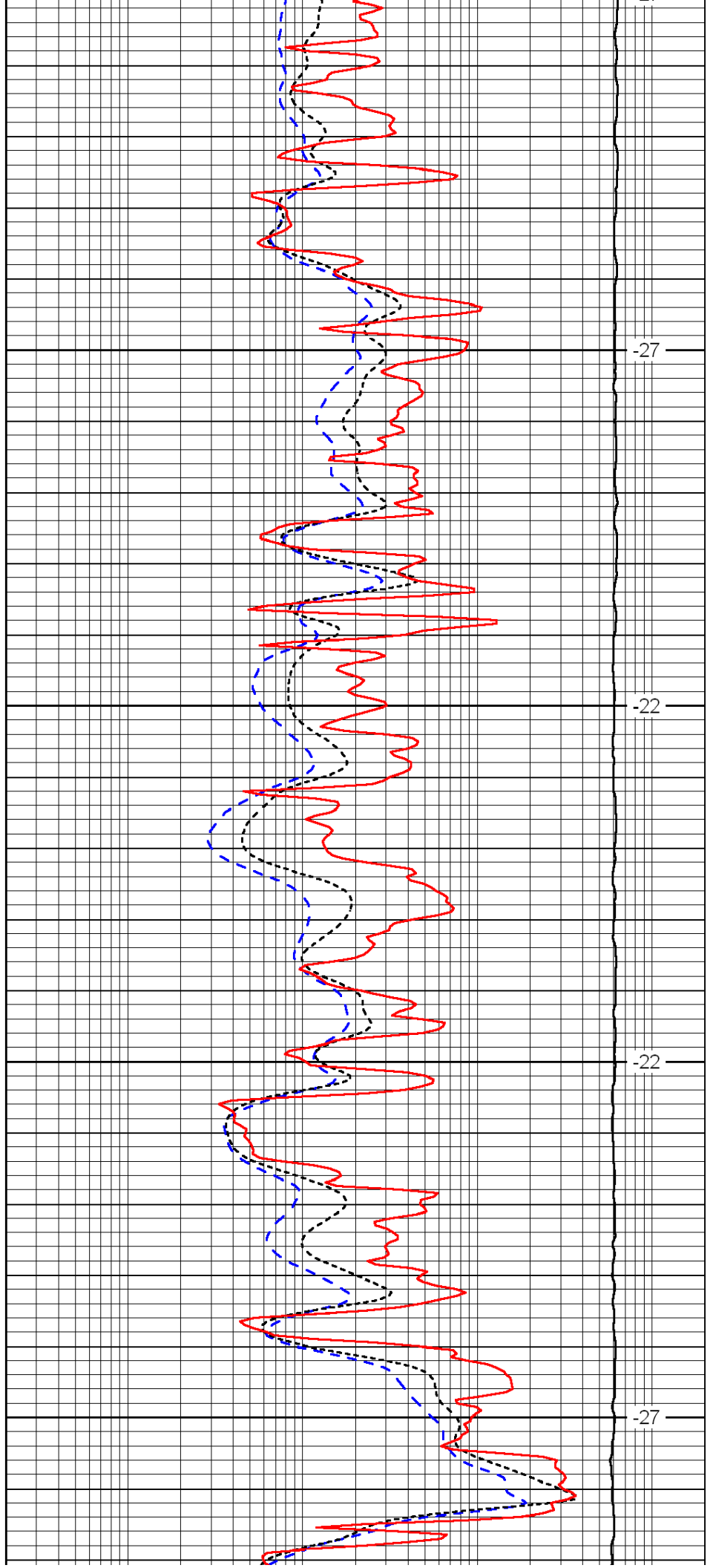


3800

3850

3900

3950

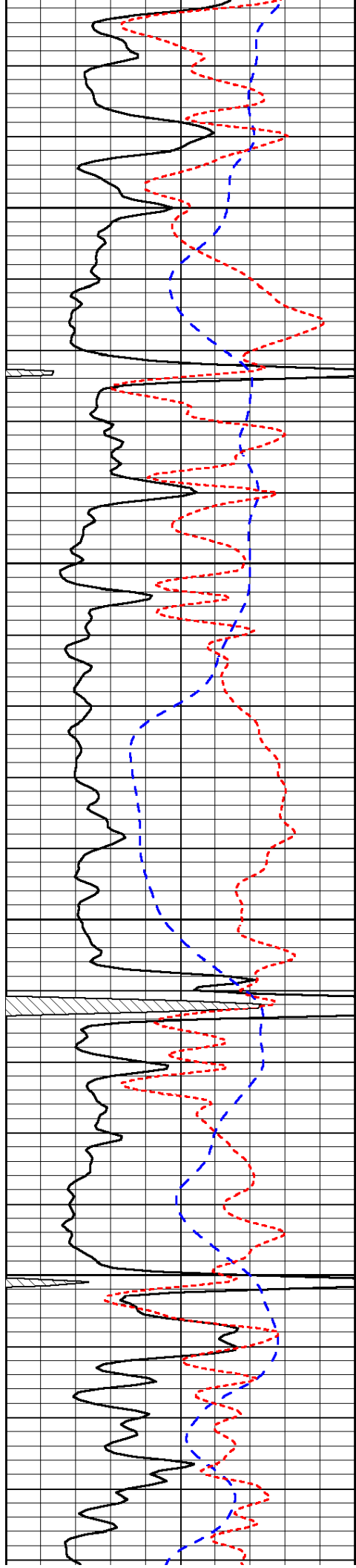


-27

-22

-22

-27

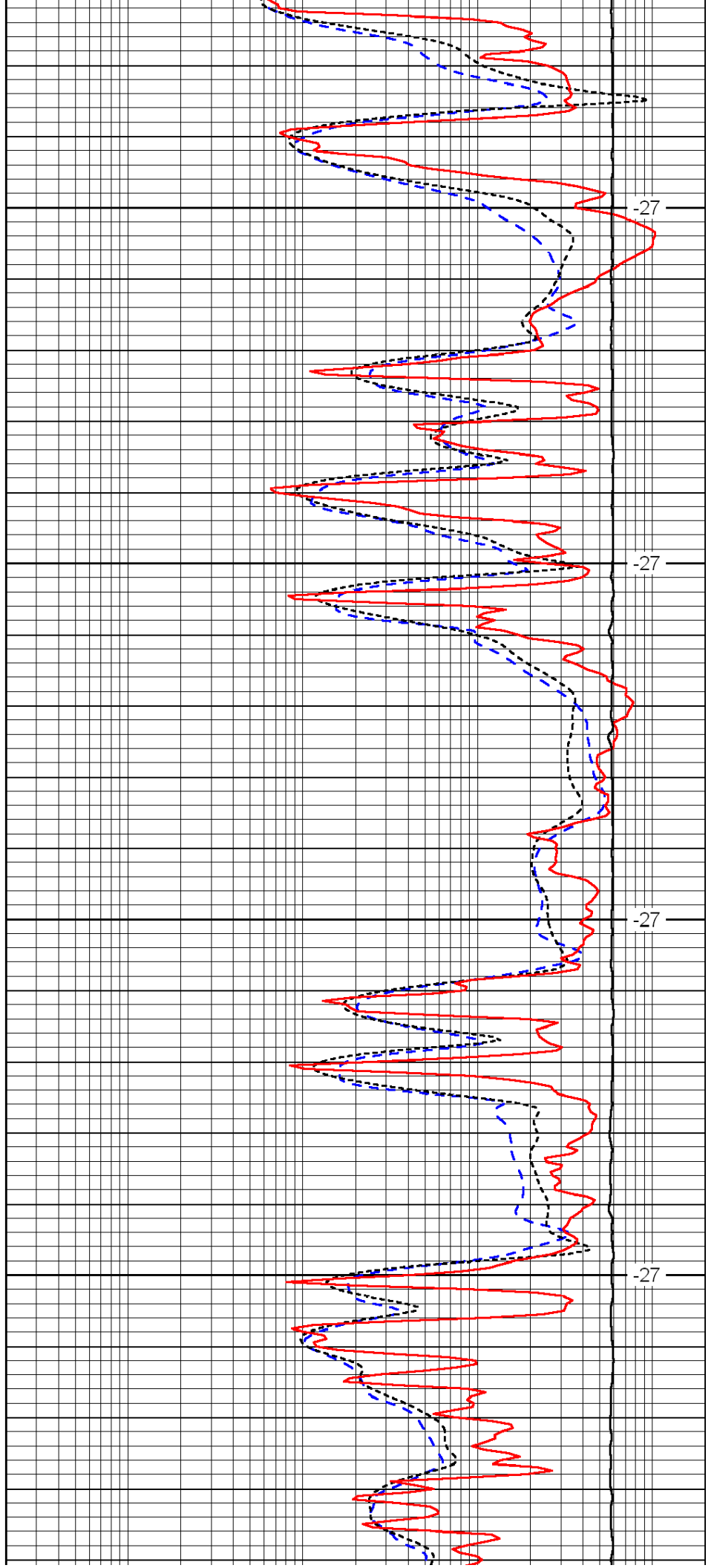


4000

4050

4100

4150

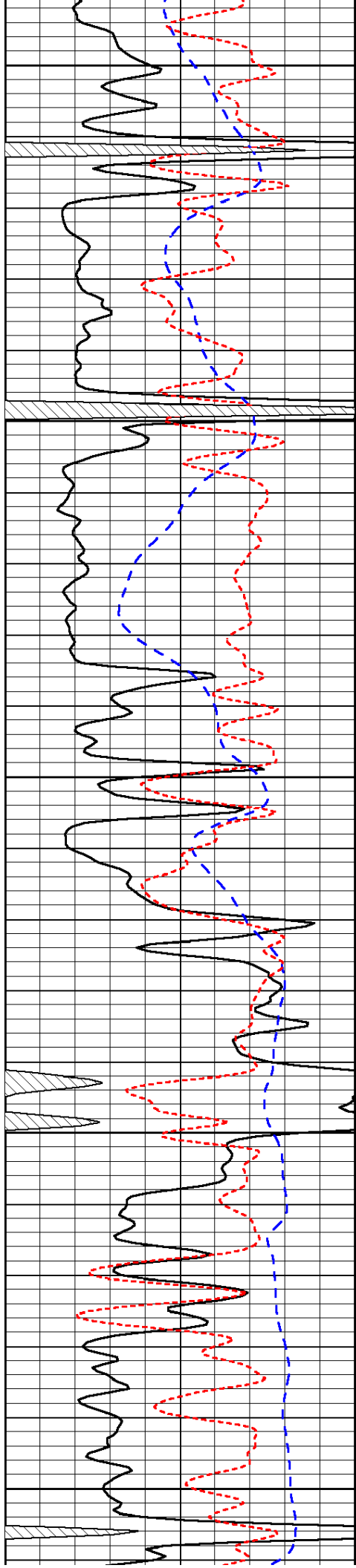


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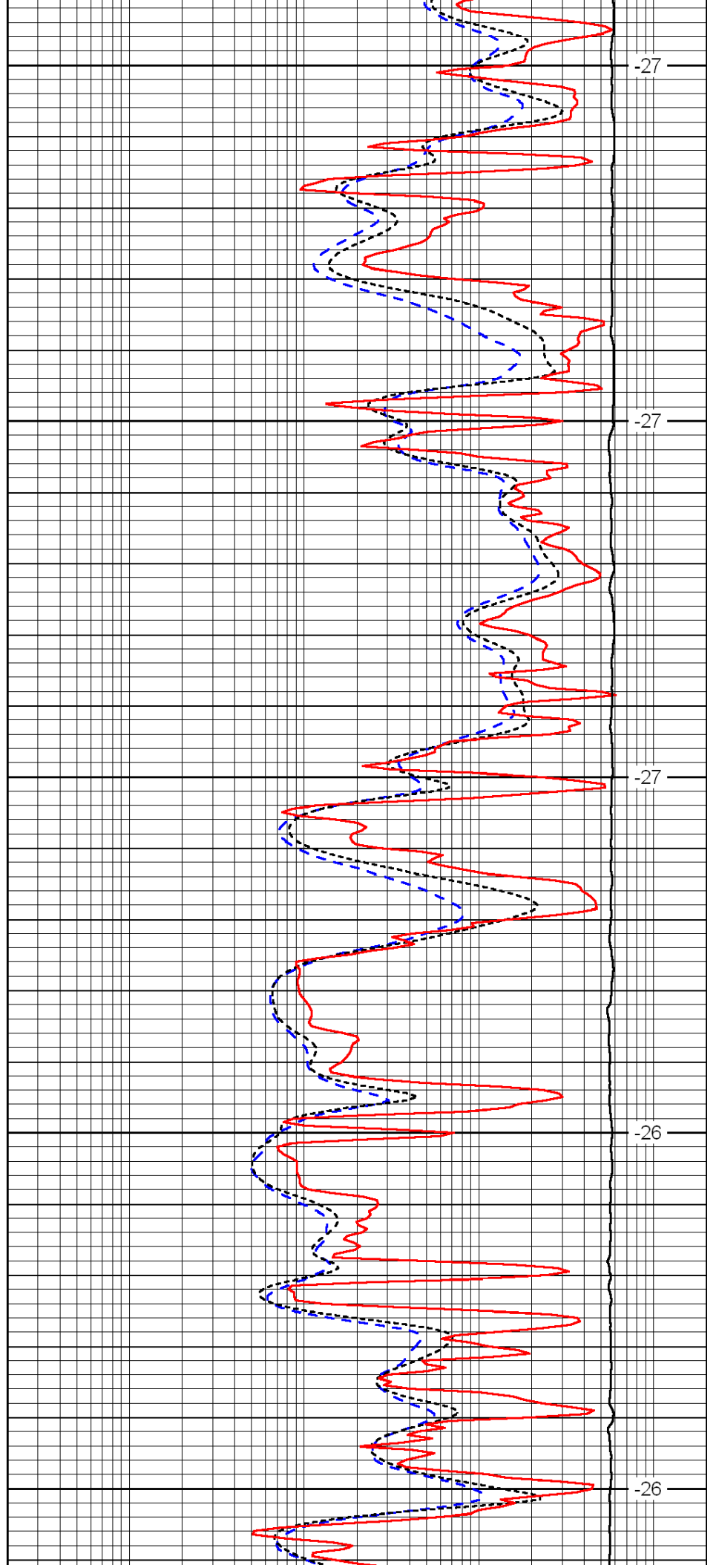
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4250

4300

4350

4400



-27

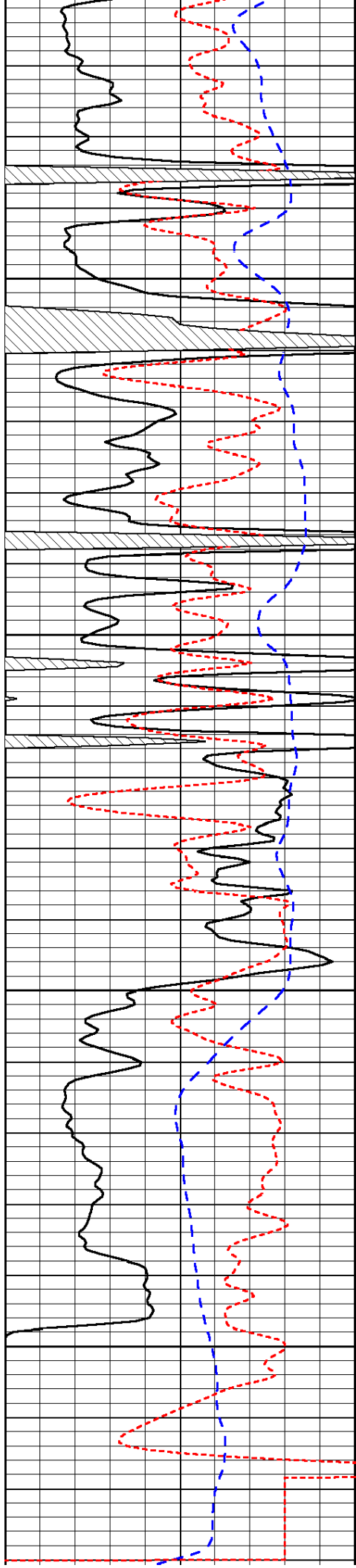
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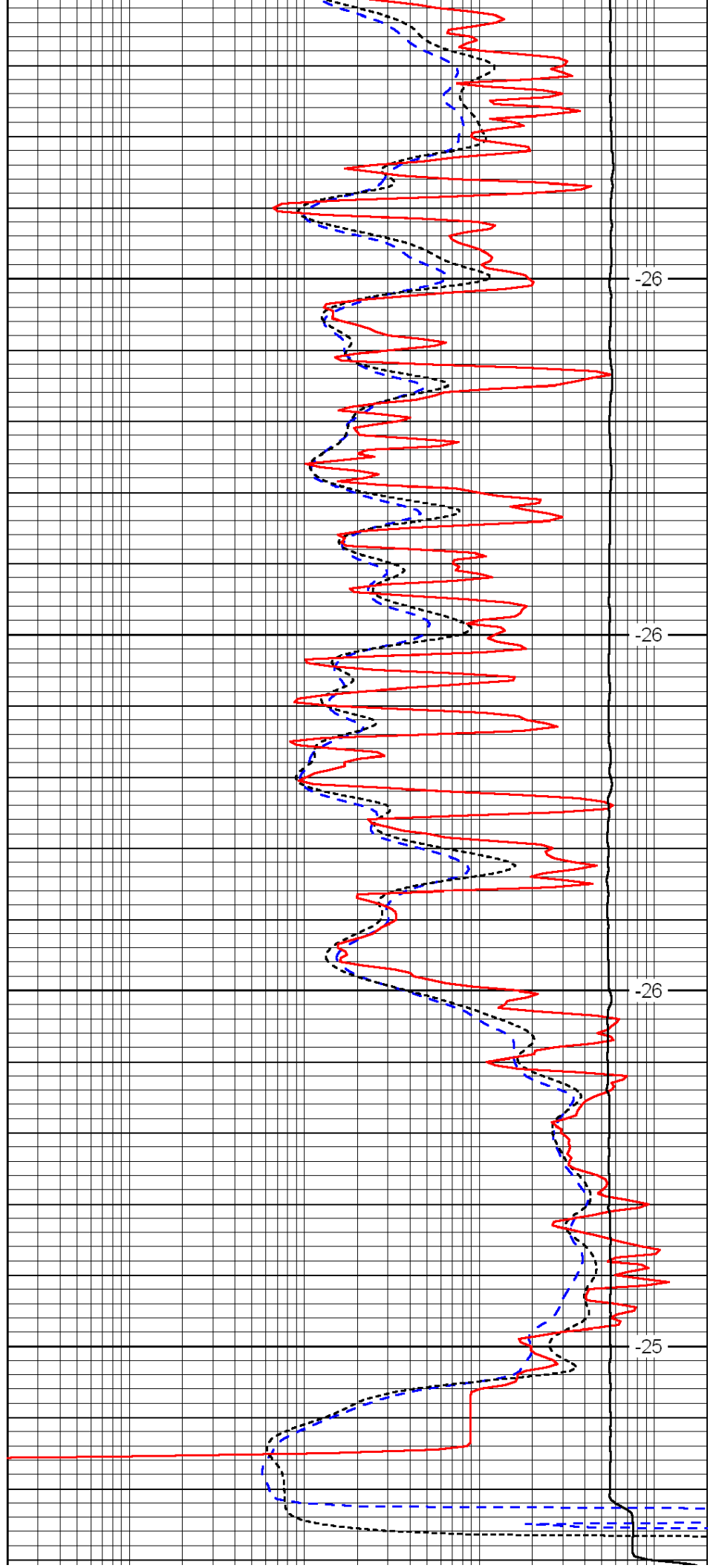


4450

4500

4550

4600



-26

-26

-26

-25

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0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0
		LSPD



Dual Compensated  
Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-101-22,252-00-00

Company Larson Operating Company  
Well Marit No. 1-24  
Field Wildcat  
County Lane  
Location 880' FNL & 330' FWL  
State Kansas

Other Services  
DIL  
MEL

Permanent Datum Ground Level Elevation 2847  
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Sec: 24 Twp: 18 S Rge: 30 W

Elevation  
K.B. 2854  
D.F. 2847  
G.L. 2847

Date 9/07/2010

Run Number One

Type Log CNL / CDL

Depth Driller 4620

Depth Logger 4622

Bottom Logged Interval 4601

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 2,400

Density 9.3

Level Full

Max. Rec. Temp. F 124

Operating Rig Time 4 Hours

Equipment -- Location 4 Hays

Recorded By K. Bange

Witnessed By Bob Lewellyn

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	260	8.625	24#	00	260
2	7.875	260	4620				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

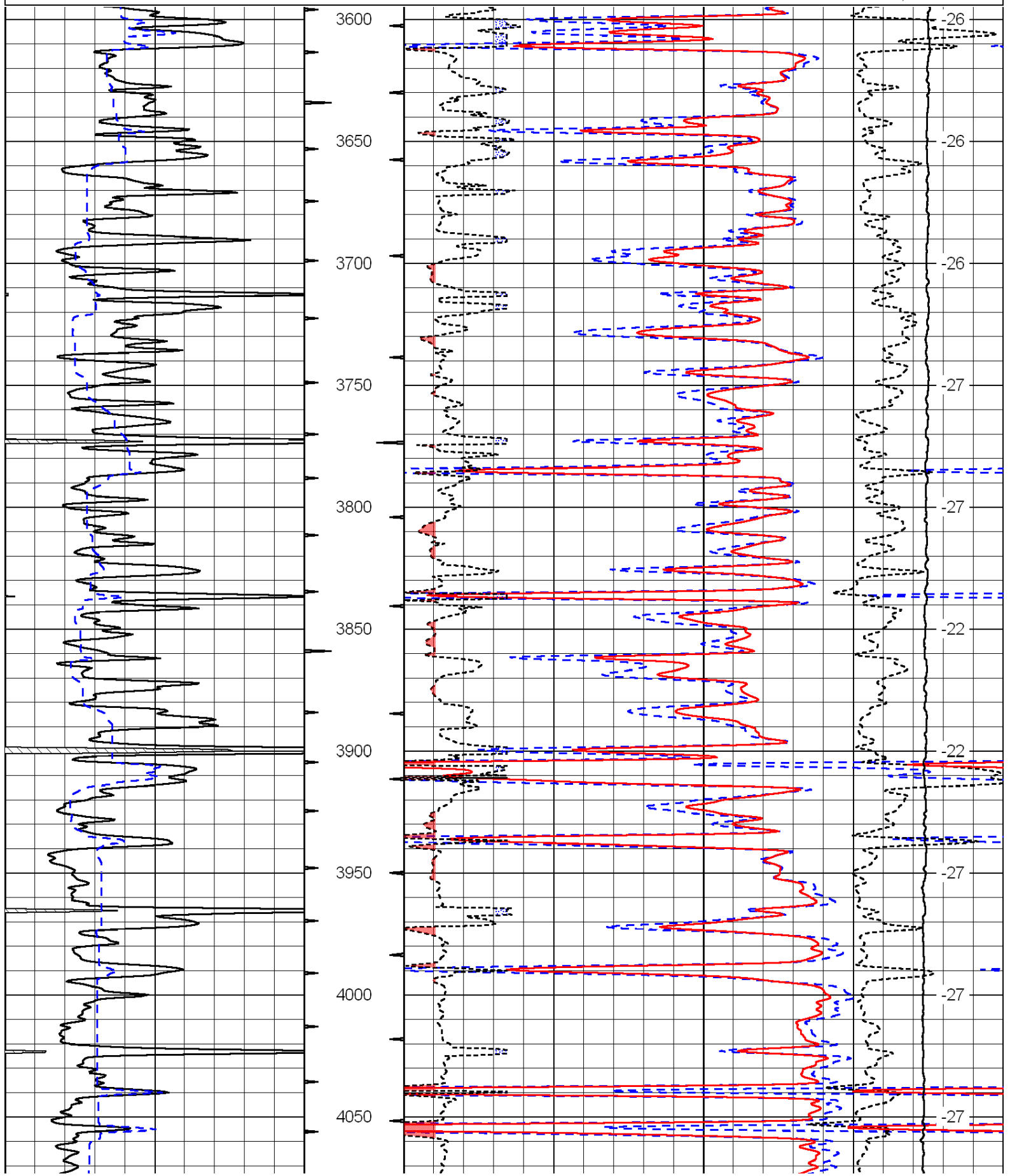
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(785) 625-3858

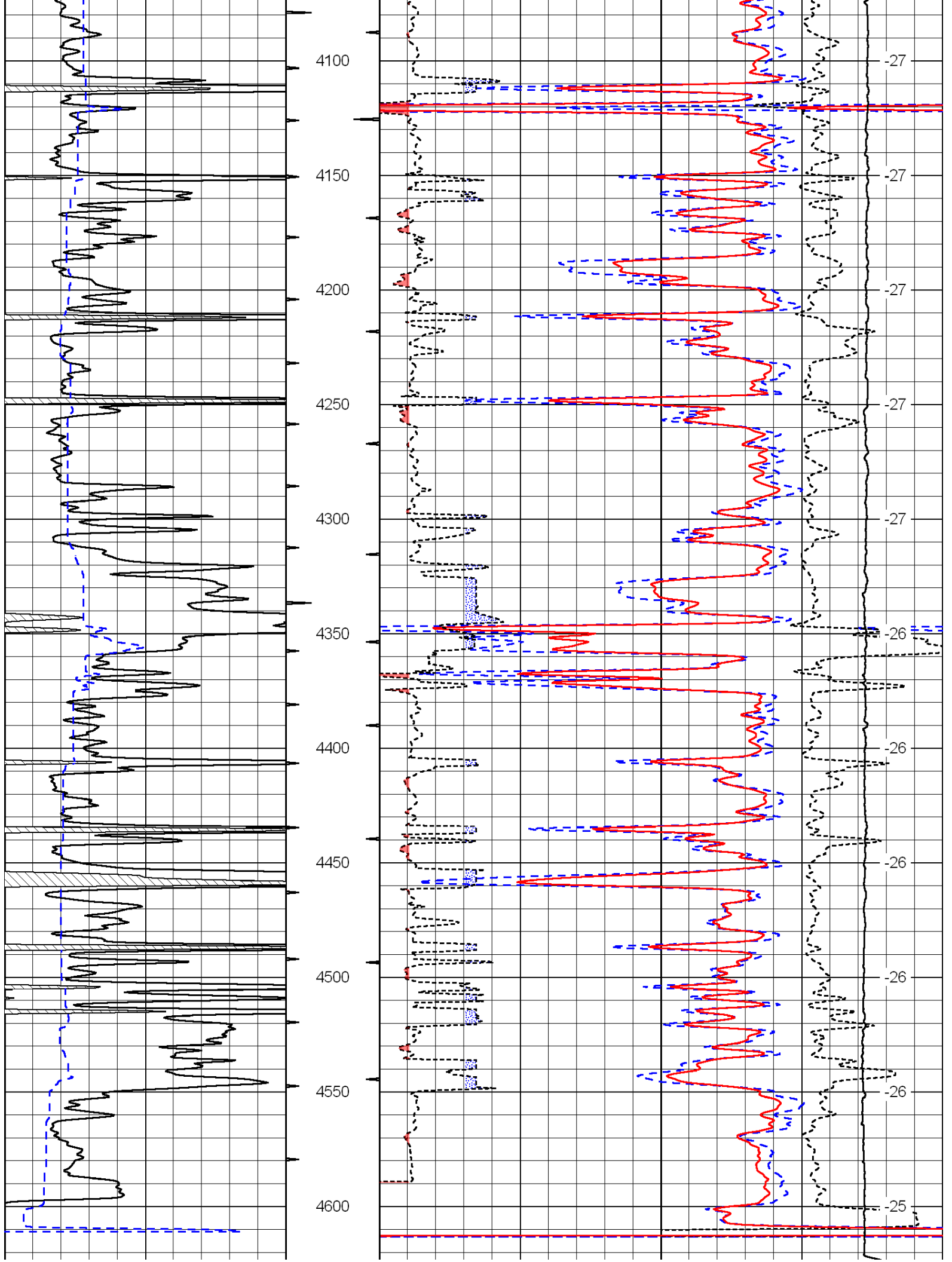
Dighton, 7 W, 1/4 S, E into

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 Presentation Format: cdl  
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 Charted by: Depth in Feet scaled 1:600

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6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

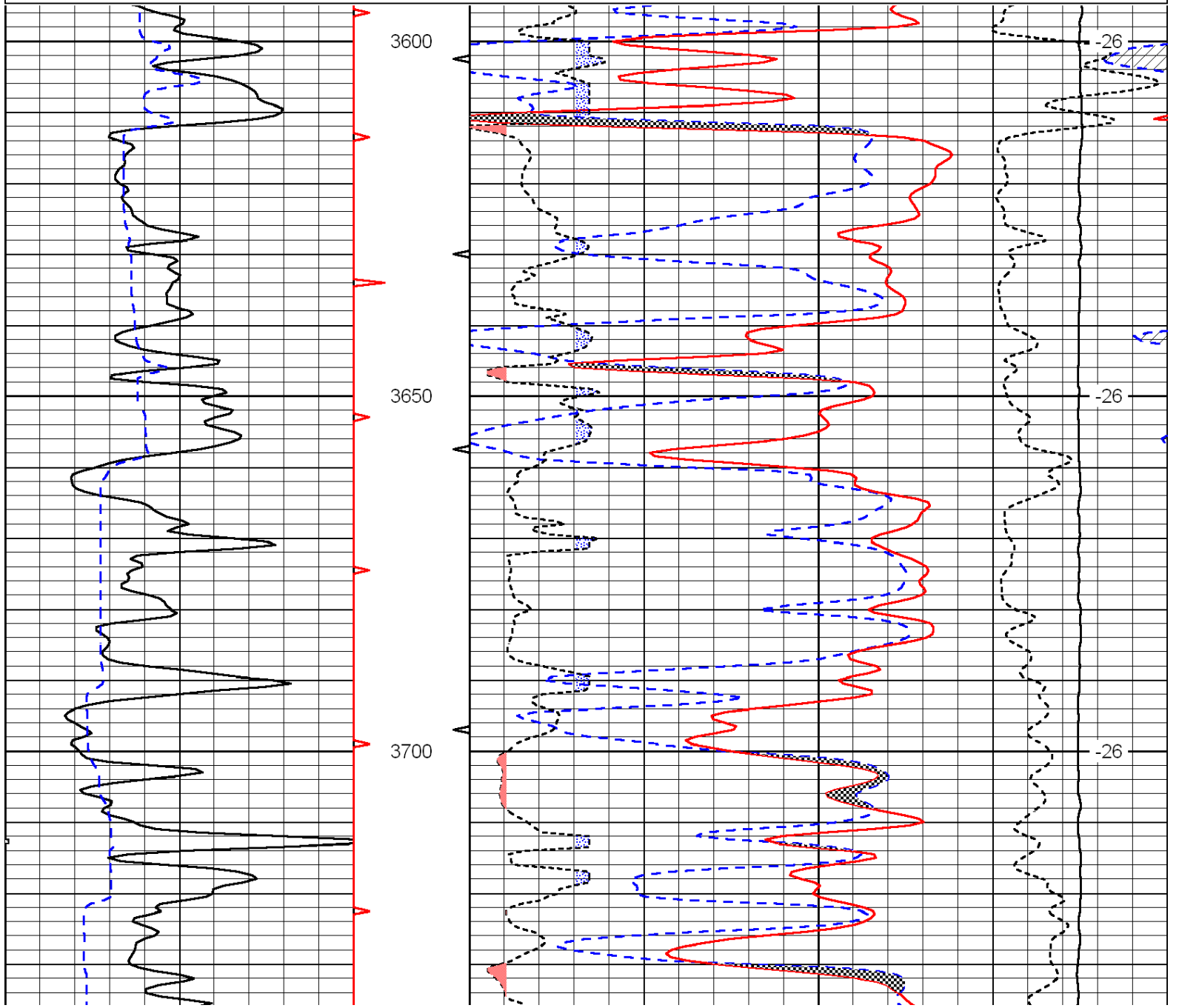


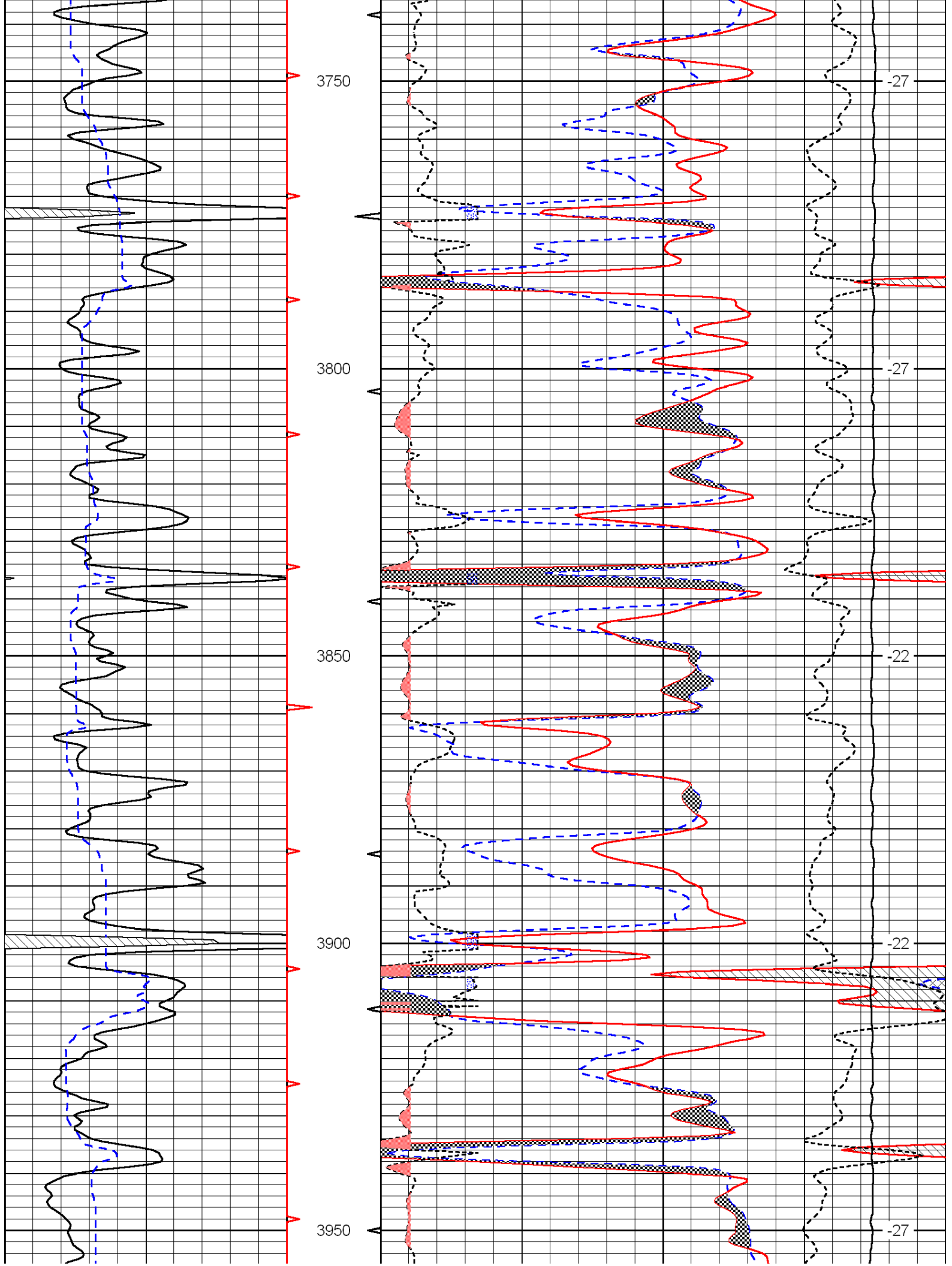


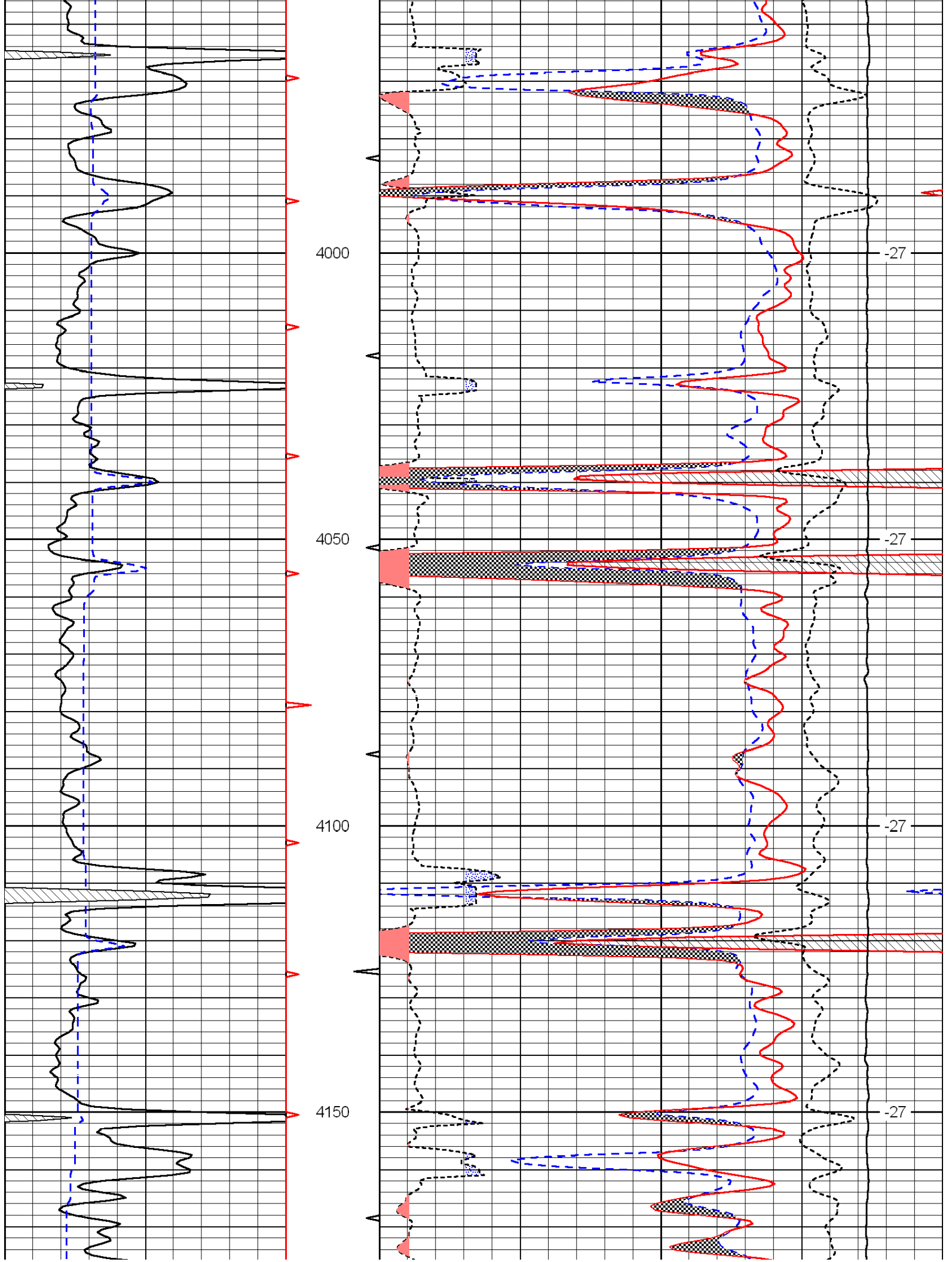
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6	Caliper (GAPI)	16	2	Bulk Density		3
			15000	Line Tension		0
	2.625	DGA	3.425	-0.25	Correction	0.25
						LSPD

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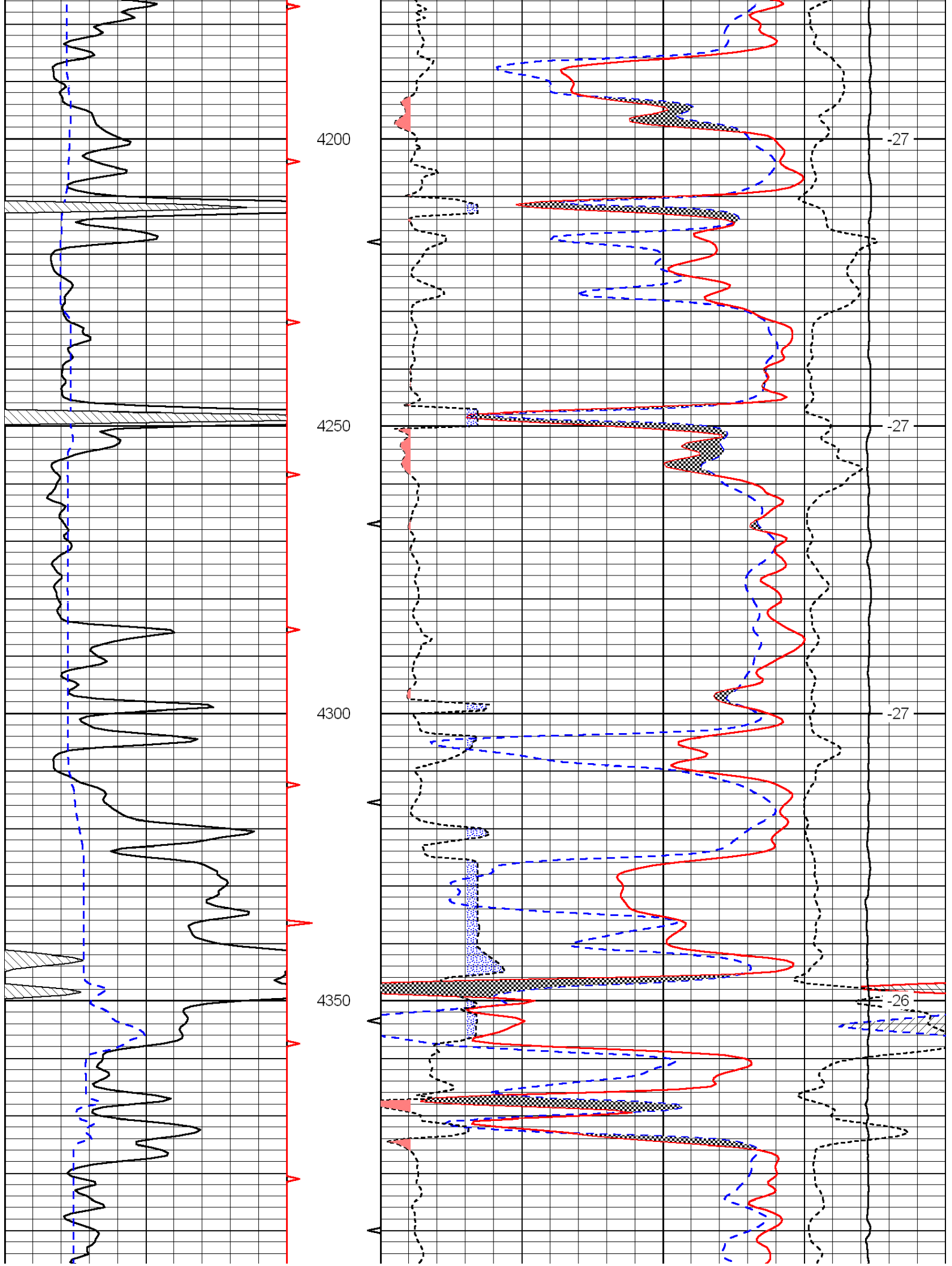
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6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)		-10
	2.625	DGA	3.425	-0.25	Correction	0.25
			15000	Line Tension		0
						LSPD

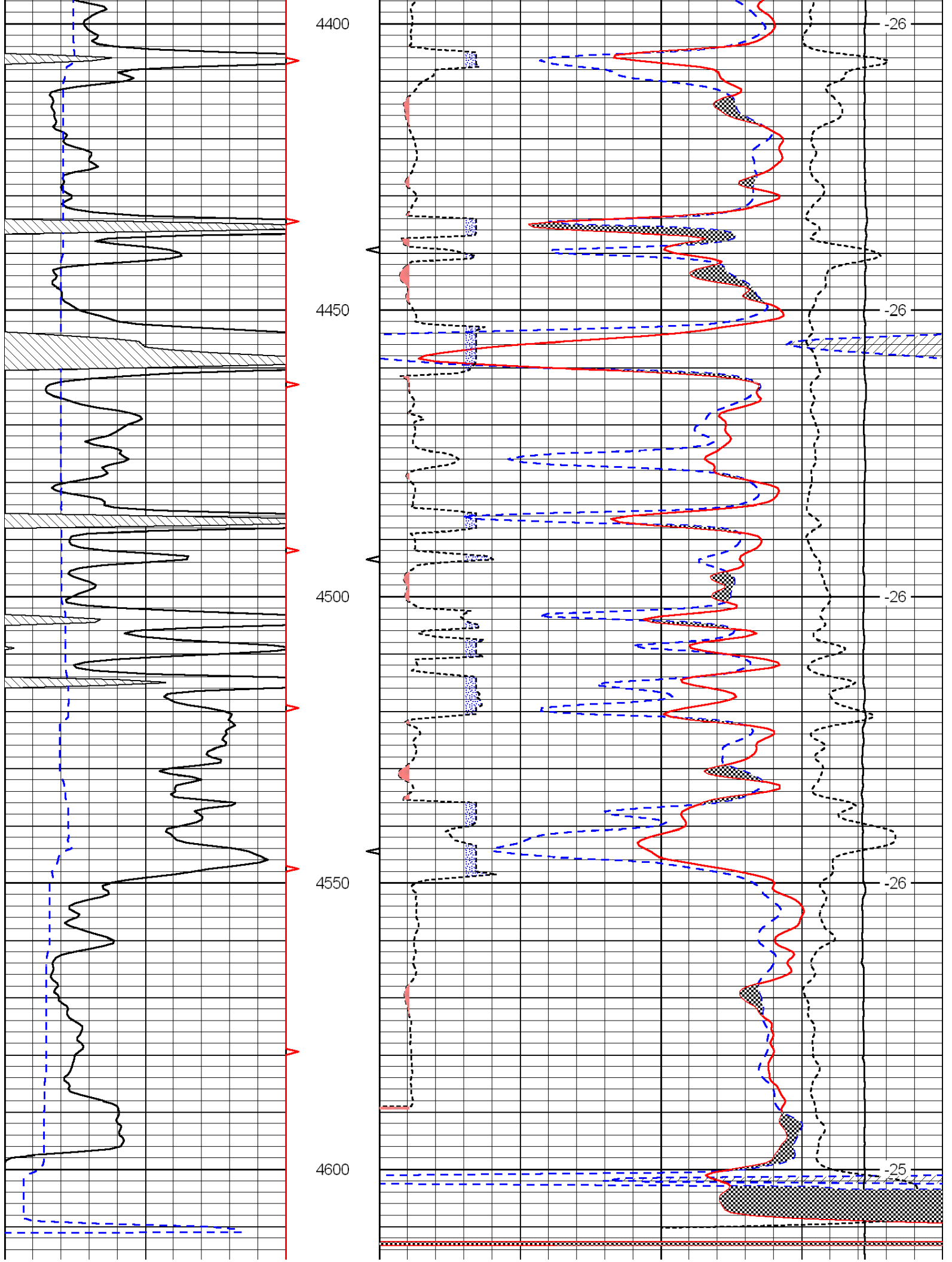


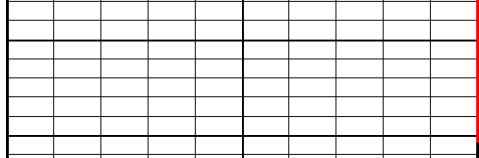




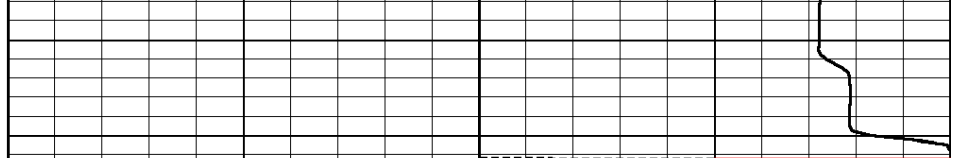








0	Gamma Ray	150
6	Caliper (GAPI)	16



30	Compensated Neutron (Limestone)		-10
30	Compensated Density (2.71 ma)		-10
2.625	DGA	3.425	-0.25
			Correction
15000	Line Tension		0

LSPD



# Microresistivity Log

**DIGITAL LOG** (785) 625-3858

API No.	15-101-22,252-00-00		
Company	Larson Operating Company		
Well	Marit No. 1-24		
Field	Wildcat		
County	Lane	State	Kansas
Location	880' FNL & 330' FWL		
Sec:	24	Twp:	18 S Rge: 30 W
Permanent Datum	Ground Level	Elevation	2847
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
		Other Services	CNL/CDL DIL
		Elevation	K.B. 2854 D.F. 2847 G.L. 2847

Date	9/07/2010
Run Number	Two
Depth Driller	4620
Depth Logger	4622
Bottom Logged Interval	4621
Top Log Interval	2600
Casing Driller	8.625 @ 260
Casing Logger	255
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2.400
Density / Viscosity	9.3   67
pH / Fluid Loss	11.5   7.2
Source of Sample	Flowline
Rm @ Meas. Temp	.75 @ 70
Rmf @ Meas. Temp	.56 @ 70
Rmc @ Meas. Temp	1.01 @ 70
Source of Rmf / Rmc	Charts
Rm @ BHT	.42 @ 124
Operating Rig Time	4 Hours
Max Rec. Temp. F	124
Equipment Number	4
Location	Hays
Recorded By	K. Bange
Witnessed By	Bob Lewellyn

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

### Comments

Thank you for using Log-Tech, Inc.  
(785) 625-3858

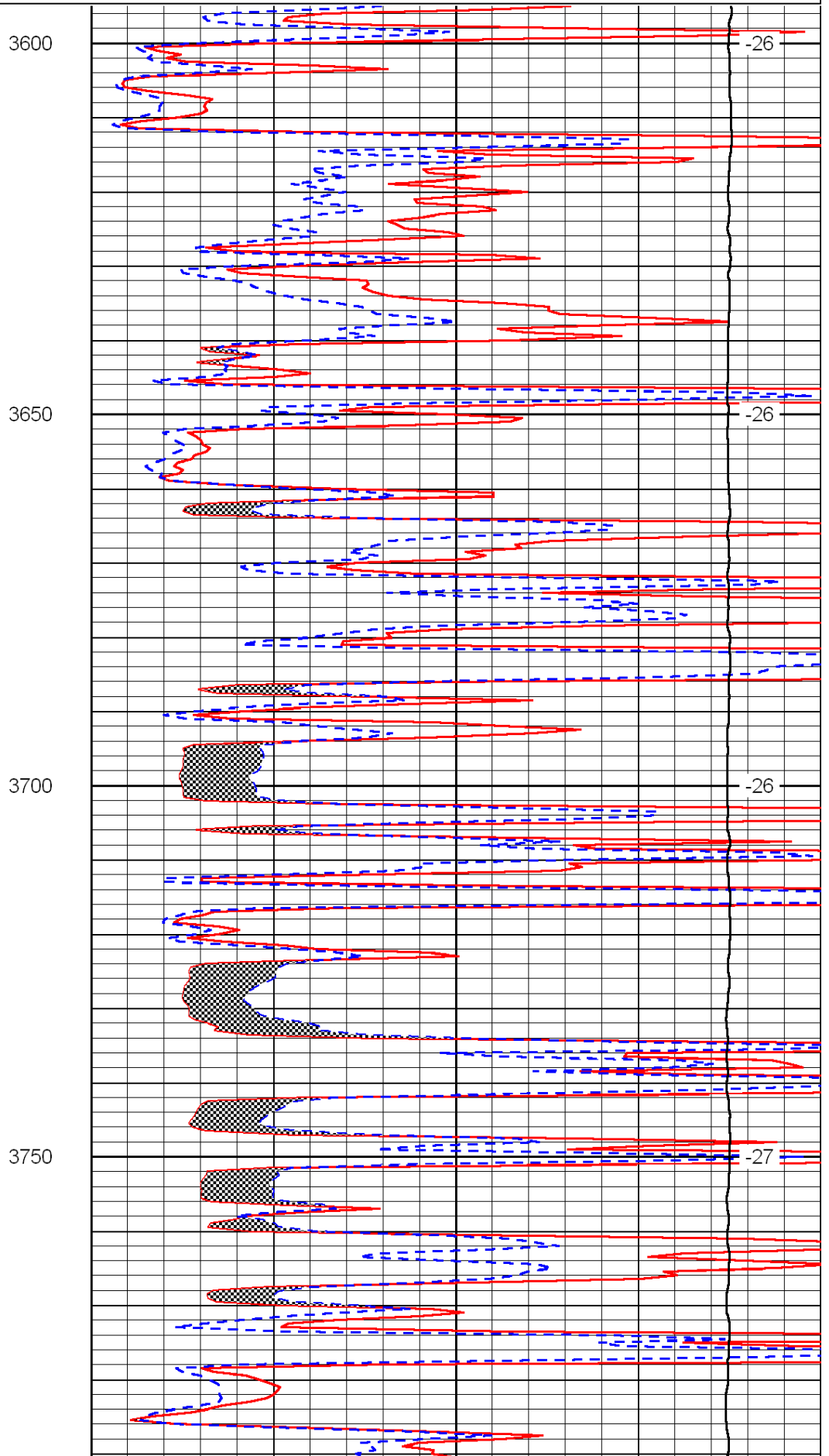
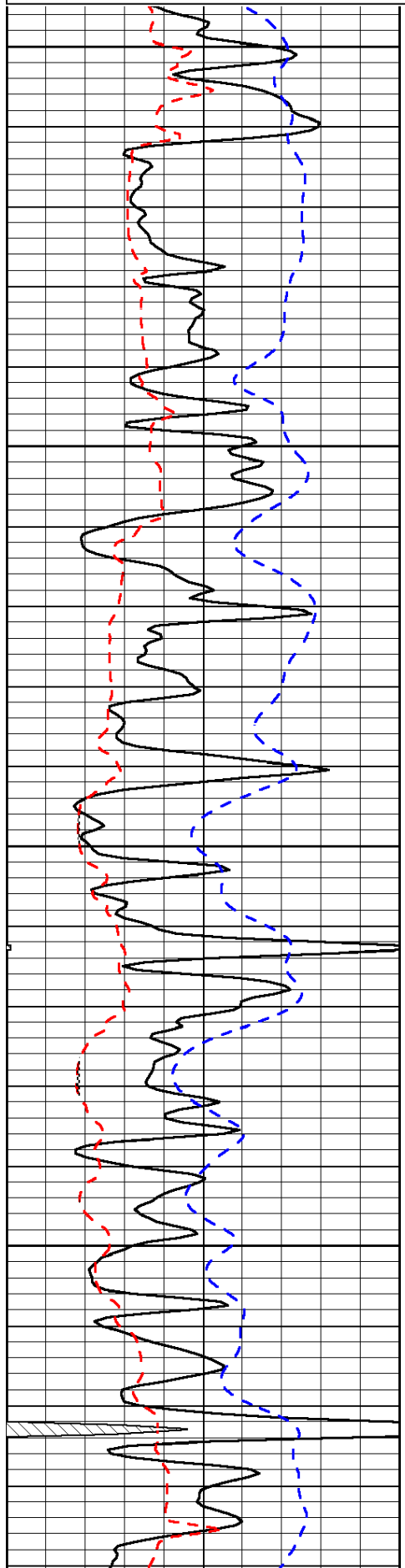
Dighton, 7 W, 1/4 S, E into

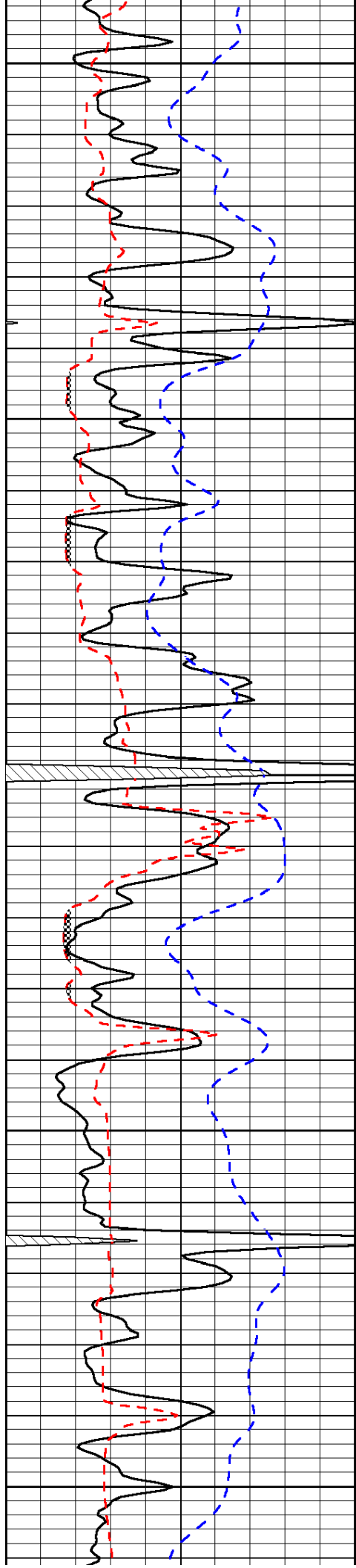
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 Dataset Pathname: dil\larsn2in  
 Presentation Format: micro  
 Dataset Creation: Tue Sep 07 06:05:48 2010  
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





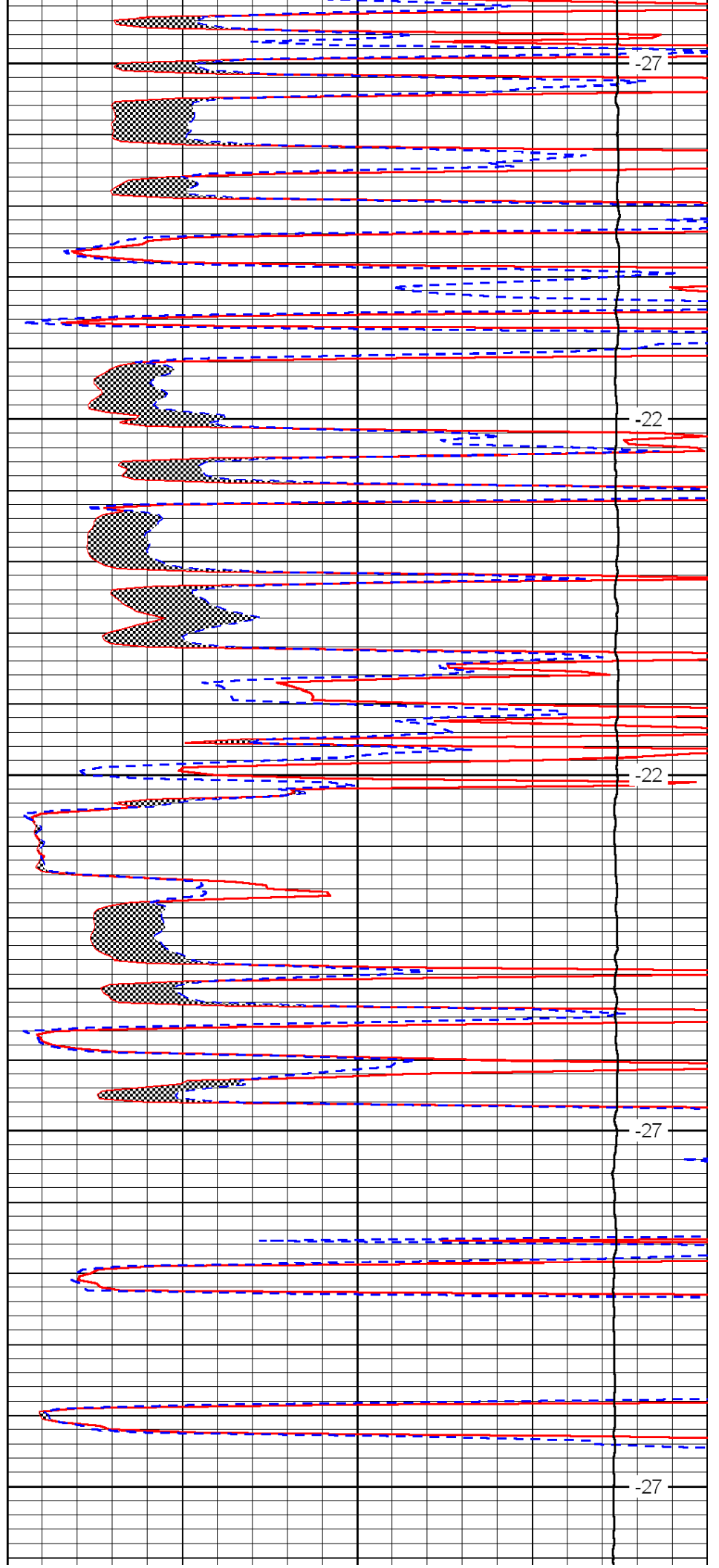
3800

3850

3900

3950

4000



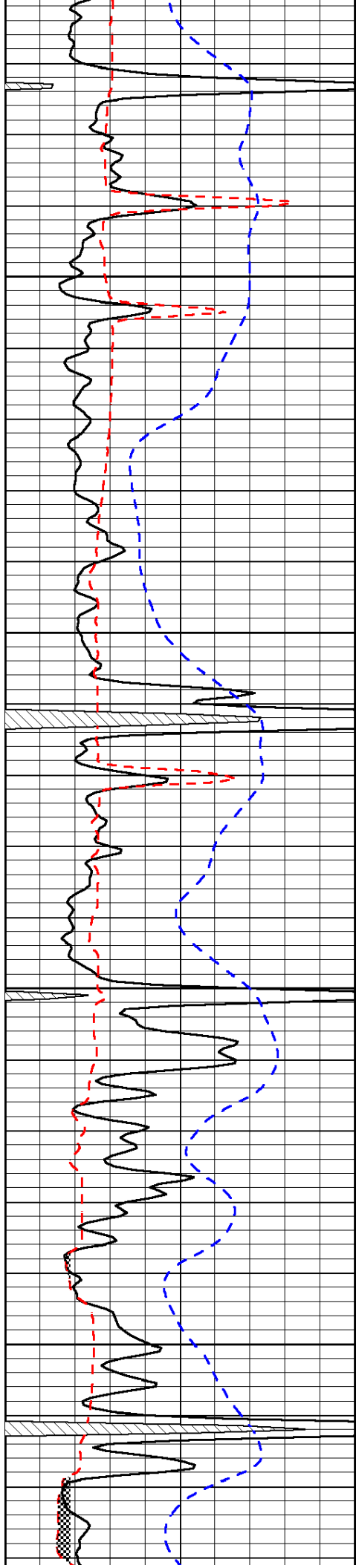
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-22

-22

-27

-27

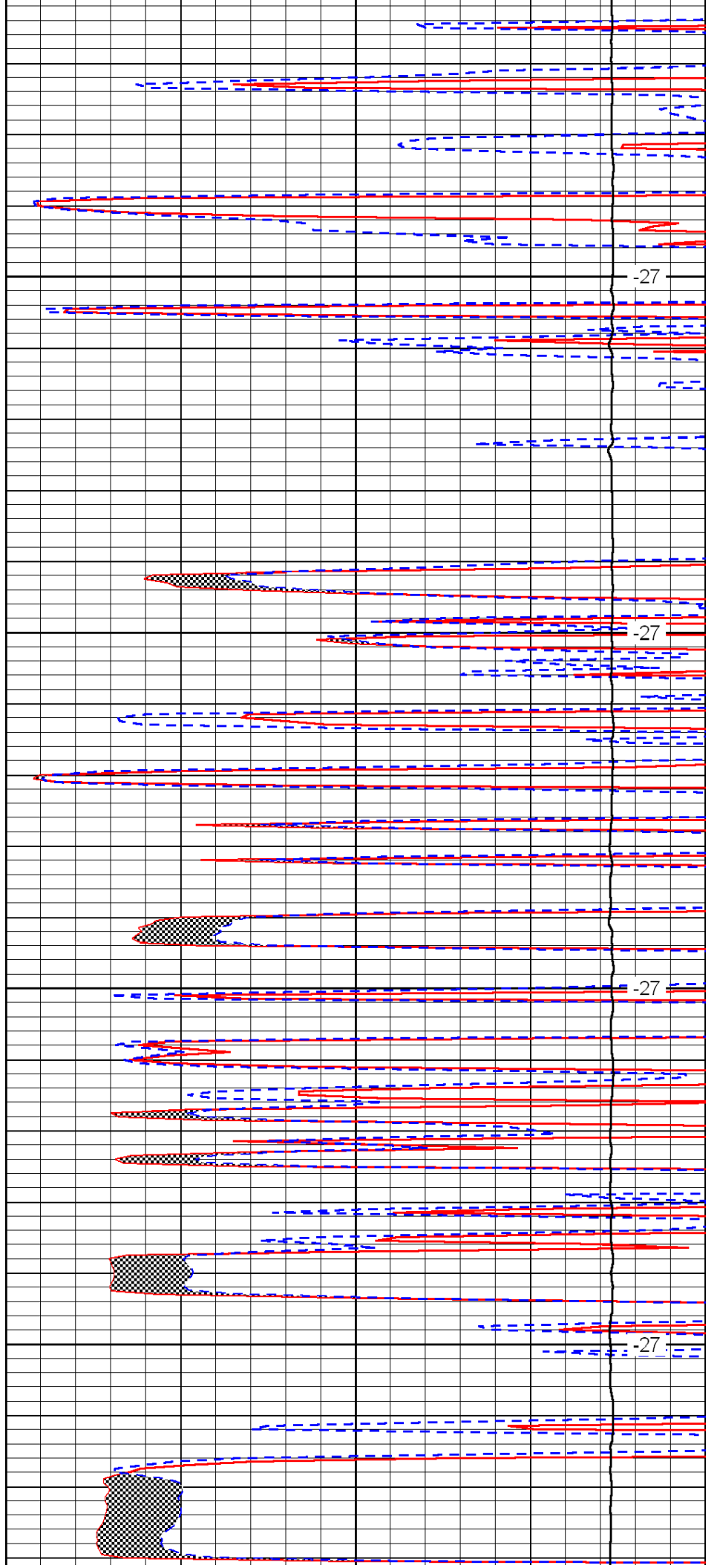


4050

4100

4150

4200

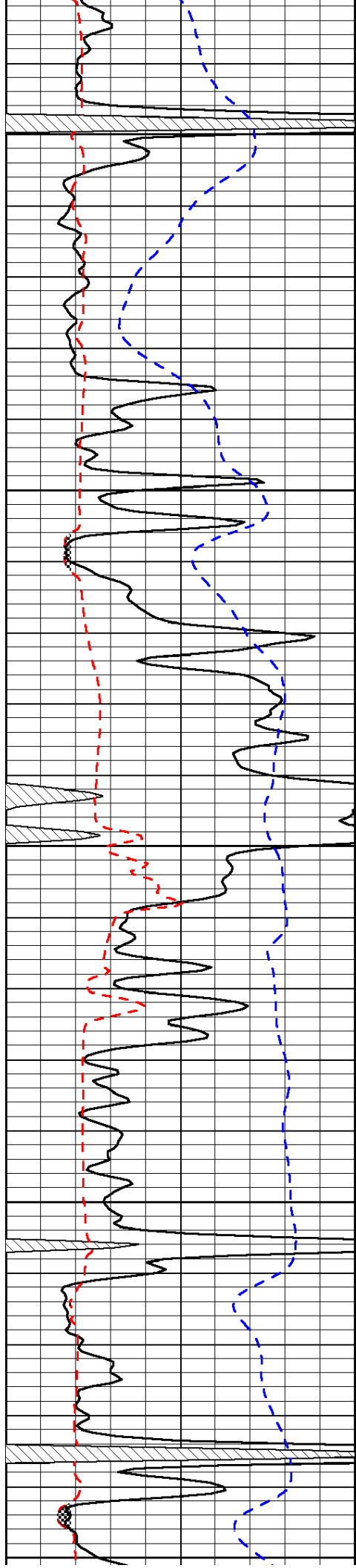


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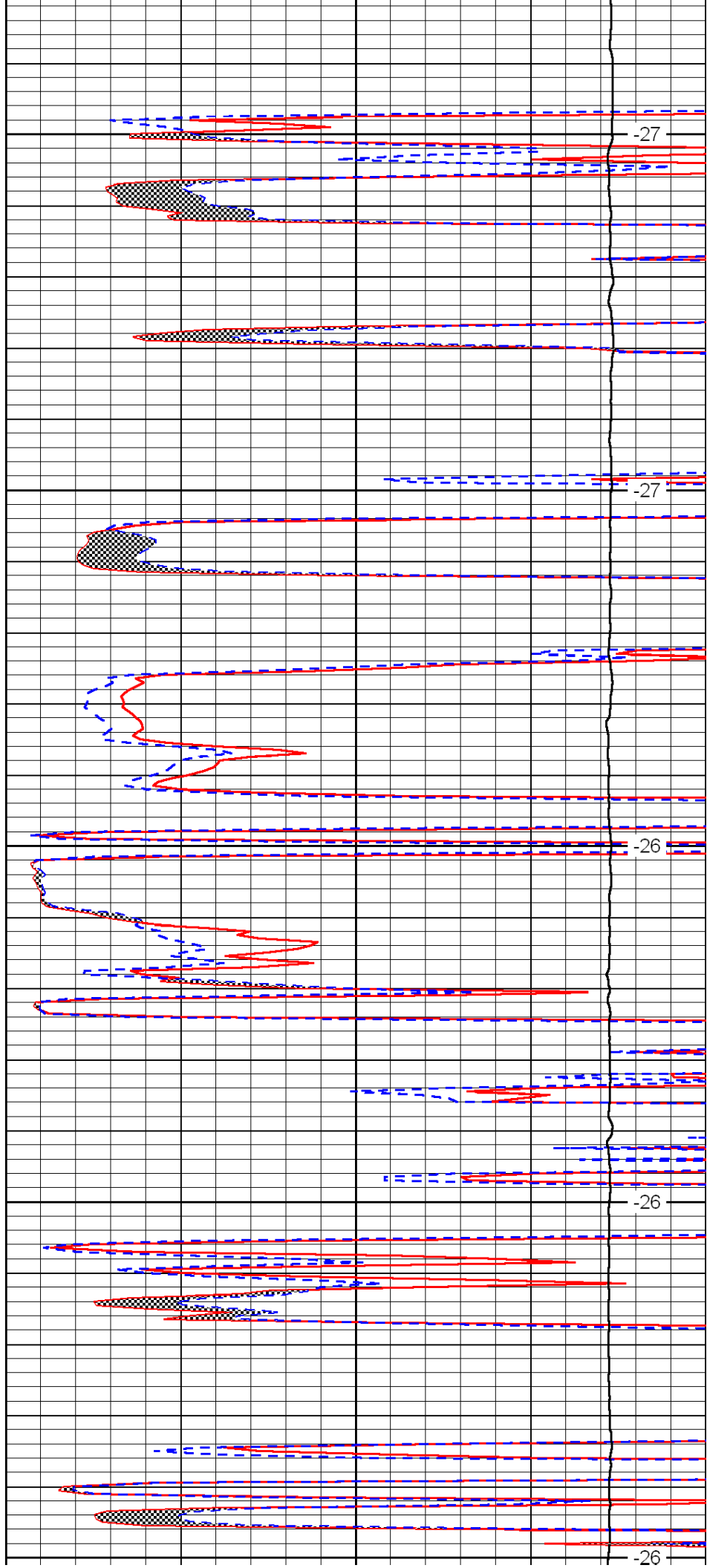
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4300

4350

4400

4450



-27

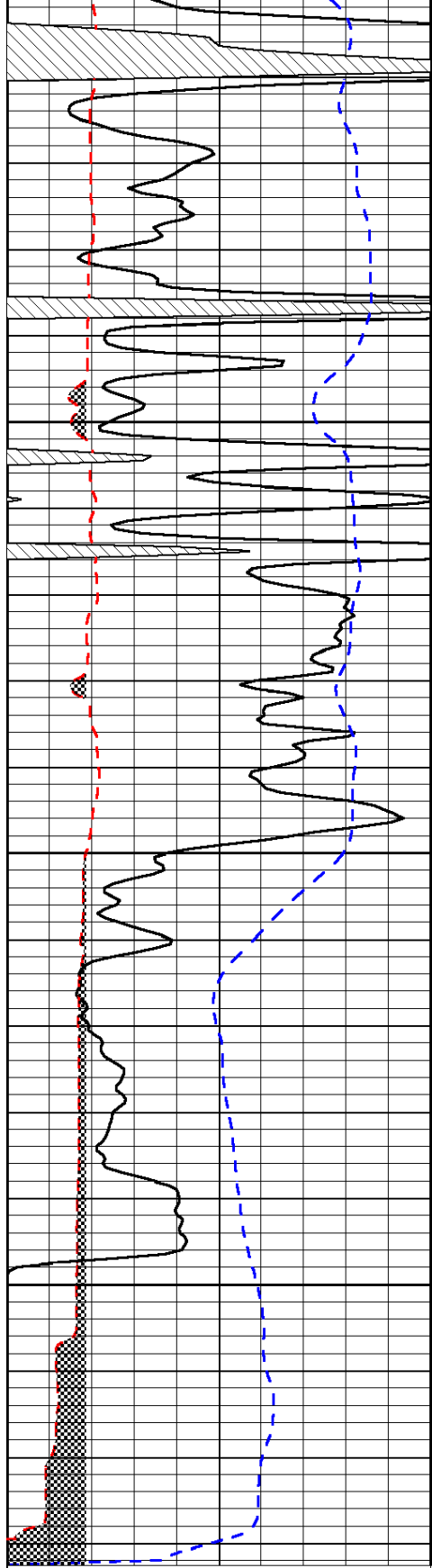
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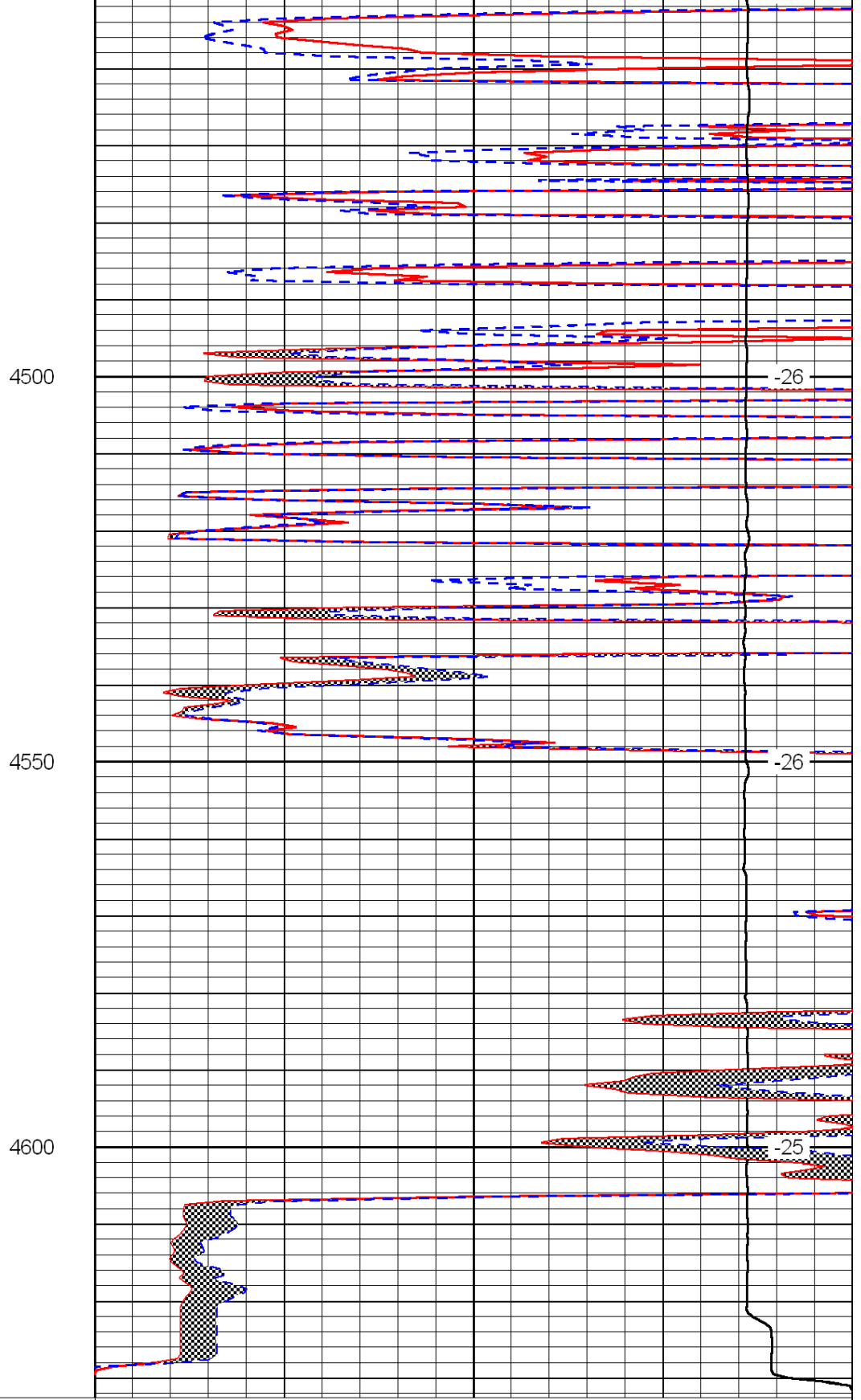
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-26





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0	Micro Normal 2''	40
15000	Line Weight	0

LSPD



*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

December 21, 2010

Thomas Larson  
Larson Engineering, Inc. dba Larson Operating  
Company  
562 W STATE RD 4  
OLMITZ, KS 67564-8561

Re: ACO1  
API 15-101-22252-00-00  
Marit 1-24  
NW/4 Sec.24-18S-30W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Thomas Larson