



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1078181
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1078181

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 12, 2012

Nicholas D. Hess
Cobalt Energy LLC
115 S. BELMONT #12
PO BOX 8037
WICHITA, KS 67208

Re: ACO1
API 15-135-25382-00-00
Dietterich Trust Unit 'A' 1-13
SW/4 Sec.13-16S-25W
Ness 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,
Nicholas D. Hess

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	Cobalt Energy LLC	ELEVATIONS	KB 2521'
LEASE	Dietterich Trust Unit "A" #1-13	FIELD	N/A
LOCATION	2470 FSL & 2600 FWL	SEC	13 TWP 16 S RGE 25 W
COUNTY	Decatur	STATE	Kansas
CONTRACTOR	Southwind Drilling Inc Rtg #1	Measurements Are All From	Kelly Bushing
SPUD	4/24/2012	COMP	4/03/2012
RTD	4521	LTD	4524
MUD UP	3396	TYPE MUD	Chemical
SAMPLES SAVED FROM	3600 TO RTD	CONDUCTOR SURFACE	5'-8" at 218'
DRILLING TIME KEPT FROM	3500 TO RTD	PRODUCTION	None
SAMPLES EXAMINED FROM	3600 TO RTD	ELECTRICAL SURVEYS	Log-Tech
GEOLOGICAL SUPERVISION FROM 3675 to RTD			
GEOLOGIST ON WELL Robert D. Hendrix			
FORMATION TOPS			
ANhydrite	1904 (-6112)	SAMPLE	
Heebner Sh	3840 (-1319)		
Lansing	3880 (-1359)		
Stark	4113 (-1594)		
BKC	4184 (-1663)		
Pawnee	4300 (-1779)		
Ft Scott	4382 (-1865)		
Cherokee	4400 (-1885)		
Mississippian	4490 (-1969)		

REMARKS: All Shows were tested with negative results due to lack of porosity. The decision was made to plug and abandon this test.

DRILLING TIME IN MINUTES PER FOOT	Rate of Penetration Decreases	
5	10	15

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
1850			Anhydrite 1910 (+611)
1904			Base Anhydrite 1932 (+589)
3600		Limestone: tan, fxln, fossiliferous, no vis por Shale: gray, dark gray Limestone: tan to brown, fxln, fossiliferous granular, no vis por Shale: gray, red Limestone: tan, fxln, dolomitic, friable, no vis por Shale: gray, brown Shale: black, gray, brown	Mud Check at 3542' wt 8.6, vis 57, lcm 2 Mud-Co, Tyler Lang Geologist on location, 3675' 12:13pm, 4/29/2012
3677		Limestone: tan, fxln, micro oolitic, fr pp por Shale: gray Limestone: tan to brown, f-mxln, fossiliferous, no vis por Limestone: tan, f-mxln, oolitic, fossiliferous, pr interxln por, ns Shale: black, gray Shale: gray Limestone: tan to white, fxln, fossiliferous, chalky, no vis por Shale: red, gray Limestone: white to tan, fxln, chalky, fossiliferous, no vis por Limestone: tan to gray, fxln, fossiliferous, granular, no vis por Shale: gray, dark gray, red, black Limestone: white to tan, fxln, cherty, fossiliferous, no vis por Shale: gray, red, black Limestone: white to tan, fxln, chalky, v-fossiliferous, no vis por Limestone: brown to gray, fxln, fossiliferous, no vis por Limestone: tan to brown, f-mxln, sl oolitic, sl chalky, fossiliferous, no vis por Shale: gray, brown Limestone: tan, fxln, fossiliferous, sl oolitic, sl chalky, sl cherty, no vis por Shale: black carbonaceous Limestone: tan, fxln, chalky, fossiliferous, no vis por, ns Shale: gray, green, red, brown	Topeka 3677 (-1156)
3700		Limestone: tan, fxln, cherty, chalky, fossiliferous, pr interxln por, ns Limestone: white, fxln, cherty, no vis por Shale: gray, black, red, Limestone: tan to white, fxln, cherty, sl chalky, fossiliferous, sl pp por, ns Limestone: tan to brown, fxln, cherty, no vis por Shale: gray, black, red Limestone: tan to brown, fxln, cherty, sl fossiliferous, no vis por Shale: gray, black, brown Limestone: tan, fxln, sl chalky, cherty, sl fossiliferous, no vis por Shale: gray Limestone: tan, fxln, sl chalky, fossiliferous, no vis por Shale: black, gray, green, red Limestone: tan to white, fxln, sl chalky, cherty, no vis por Limestone: tan, fxln, sl chalky, sl cherty, sl oolitic, fossiliferous, no vis por Shale: gray, black Limestone: tan, fxln, sl fossiliferous, chalky, no vis por Limestone: tan, f-mxln, oolitic, gd oolitic por, ns Shale: gray, red Limestone: tan, fxln, chalky, sl cherty, no vis por Shale: gray, black, brown Limestone: tan to white, fxln, cherty, fossiliferous, no vis por Shale: red, gray, black Limestone: tan to brown, mxln, oolitic, fr oolitic por Shale: gray, black Limestone: tan to gray, fxln, chalky, sl cherty, no vis por Limestone: white to tan, fxln, dense, sl chalky, sl cherty, no vis por Shale: gray, red, brown Limestone: white to tan, fxln, oolitic, sl chalky, sl cherty, gd oolitic por Limestone: white to tan, fxln, dense, sl chalky, sl cherty, no vis por Shale: black, carbonaceous Shale: gray red Limestone: tan to white, fxln, chalky, fossiliferous, sl oolitic, no vis por Limestone: tan, fxln, sl chalky, sl cherty, no vis por Shale: black, carbonaceous Limestone: tan to brown, fxln, sl cherty, no vis por Shale: dark gray, gray, green, brown Limestone: tan to brown, fxln, sl chalky, cherty, fossiliferous, no vis por	Heebner 3844 (-1323) Toronto 3861 (-1340) Lansing 3884 (-1363)
3900		Shale: gray, green, red, black Limestone: tan, f-mxln, sl chalky, sl fossiliferous, no vis por Shale: gray, red, dark gray, green Shale: gray, brown, black Limestone: tan to brown, fxln, oolitic in part, sl cherty, no vis por Shale: gray, brown, red Shale: gray, black, red Limestone: tan, fxln, fossiliferous, no vis por Shale: gray, brown Limestone: brown, fxln, sl fossiliferous, no vis por Shale: gray, brown Siltstone: brown, v-fxln, sl fossiliferous, no vis por Shale: gray, brown, red Limestone: tan, fxln, sl cherty, dense, no vis por Siltstone: brown to tan, v-fxln, sl cherty, no vis por Shale: black, carbonaceous Shale: gray, brown, red Limestone: tan, fxln, granular, no vis por, bright yellow fluorescence, no cut Shale: gray, brown Limestone: tan to white, fxln, sl chalky, sl cherty, sl fossiliferous, no vis por, bright yellow fluorescence, no cut Shale: black, carbonaceous Limestone: tan to brown, f-mxln, fossiliferous, peltatoidal in part, no vis por Shale: gray, red Limestone: tan to brown, fxln, fossiliferous, no vis por Shale: dark gray, red, brown Siltstone: brown, v-fxln, dense, no vis por Shale: gray, brown, red, black Shale: red, gray, black, brown, yellow, waxy Conglomerate: Shale: AA, with Limestone, Cherty fresh v/t, fossiliferous, with scattered dark surface stain, info, fr odor, no fluorescence Chert: white to brown, translucent, fresh, fossiliferous, no vis por Dolomite: tan to brown, fxln pr interxln por, 10% sample sat dark stain, sl-sfo on break scattered bright yellow fluorescence, gd odor Dolomite: tan, fxln, sl cherty, fr pp to interxln por, 40% sample sat dark stain, fr-sfo, scattered bright yellow fluorescence, gd odor Dolomite: tan, fxln, sl cherty, sucrosic, sl interxln por, 40% grading to 1% on 60 min sample, lt to dark sat stain, sl-sfo on break, scattered dark yellow fluorescence, fr odor	Stark 4119 (-1598) BKC 4180 (-1659) Pawnee 4309 (-1788) Ft Scott 4386 (-1865) Cherokee 4412 (-1891)
4000			Wt 9.1, vis 49, lcm 1 Mud-Co, Tyler Lang 8:00 am, 4/30/2012
4100			Stark 4119 (-1598)
4113			8:00 am, 5/01/2012 25 stand short trip
4200			DST #1 4469-4511 30-60-30-30 1st open: 1/4" blow died to weak surface 2nd open: no blow Recovery: 8' OCM 1/99 Hydro: 2211-2118# IF: 16-17# FF: 18-18# SIP: 789-176# BHT: 115"
4300			Mississippian 4490 (-1969)
4400			Strap 0.17' Long to board Wt 9.35, vis 54, lcm 1 Mud-Co, Tyler ang 8:00 am, 5/02/2012
4412			DST #2 4496-4521 30-60-30-30 1st open: weak blow 2nd open: no blow Recovery: 5' mud with oil specks Hydro: 2216-2113# IF: 15-17# FF: 17-18# SIP: 1306-990# BHT: 113"
4500			Geologist off site at 4:15am 4/3/2012
RTD 4521			



DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Robert Hendrix

13-16s-25w Ness,KS

Dietterich Trust Unit A #1-13

Start Date: 2012.05.01 @ 22:47:00

End Date: 2012.05.02 @ 04:43:09

Job Ticket #: 45843 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.04 @ 11:52:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

ATTN: Robert Hendrix

Job Ticket: 45843

DST#: 1

Test Start: 2012.05.01 @ 22:47:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:24:40

Time Test Ended: 04:43:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 4469.00 ft (KB) To 4511.00 ft (KB) (TVD)

Reference Elevations: 2521.00 ft (KB)

Total Depth: 4511.00 ft (KB) (TVD)

2511.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 18.54 psig @ 4470.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.01

End Date:

2012.05.02

Last Calib.: 2012.05.02

Start Time: 22:47:00

End Time:

04:43:09

Time On Btm: 2012.05.02 @ 00:24:25

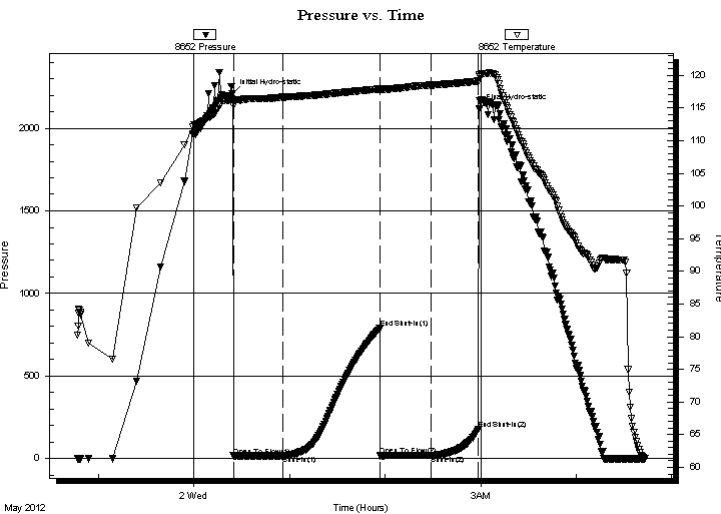
Time Off Btm: 2012.05.02 @ 02:59:10

TEST COMMENT: IF- 1/4" Blow Died Back to Weak Surface Blow

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.60	116.19	Initial Hydro-static
1	16.95	115.35	Open To Flow (1)
32	17.87	116.64	Shut-In(1)
93	789.51	117.91	End Shut-In(1)
93	18.38	117.57	Open To Flow (2)
125	18.54	118.49	Shut-In(2)
155	176.81	119.12	End Shut-In(2)
155	2118.40	120.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	OCM 1%oil 99% m (with Skim of Oil on	0.11

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

ATTN: Robert Hendrix

Job Ticket: 45843

DST#: 1

Test Start: 2012.05.01 @ 22:47:00

Tool Information

Drill Pipe:	Length: 4462.00 ft	Diameter: 3.80 inches	Volume: 62.59 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 14000.00 lb
			<u>Total Volume: 62.59 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4469.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4448.00	
Shut In Tool	5.00			4453.00	
Hydraulic tool	5.00			4458.00	
Safety Joint	2.00			4460.00	
Packer	5.00			4465.00	22.00 Bottom Of Top Packer
Packer	4.00			4469.00	
Stubb	1.00			4470.00	
Recorder	0.00	8652	Inside	4470.00	
Recorder	0.00	8322	Outside	4470.00	
Perforations	5.00			4475.00	
Change Over Sub	1.00			4476.00	
Drill Pipe	31.00			4507.00	
Change Over Sub	1.00			4508.00	
Bullnose	3.00			4511.00	42.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

Job Ticket: 45843

DST#: 1

ATTN: Robert Hendrix

Test Start: 2012.05.01 @ 22:47:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.34 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	OCM 1%oil 99%m (with Skim of Oil on	0.112

Total Length: 8.00 ft Total Volume: 0.112 bbl

Num Fluid Samples: 0

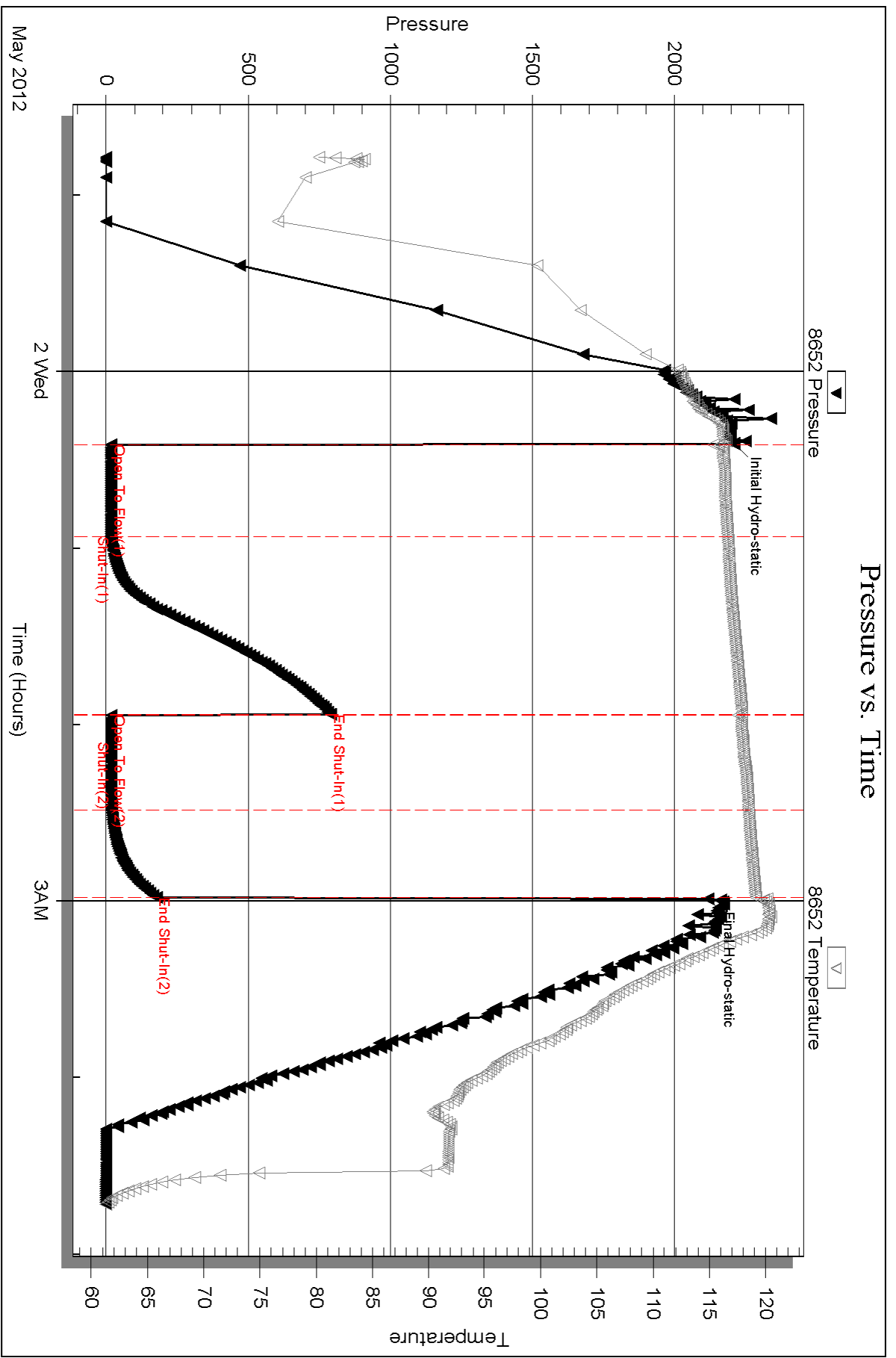
Num Gas Bombs: 0

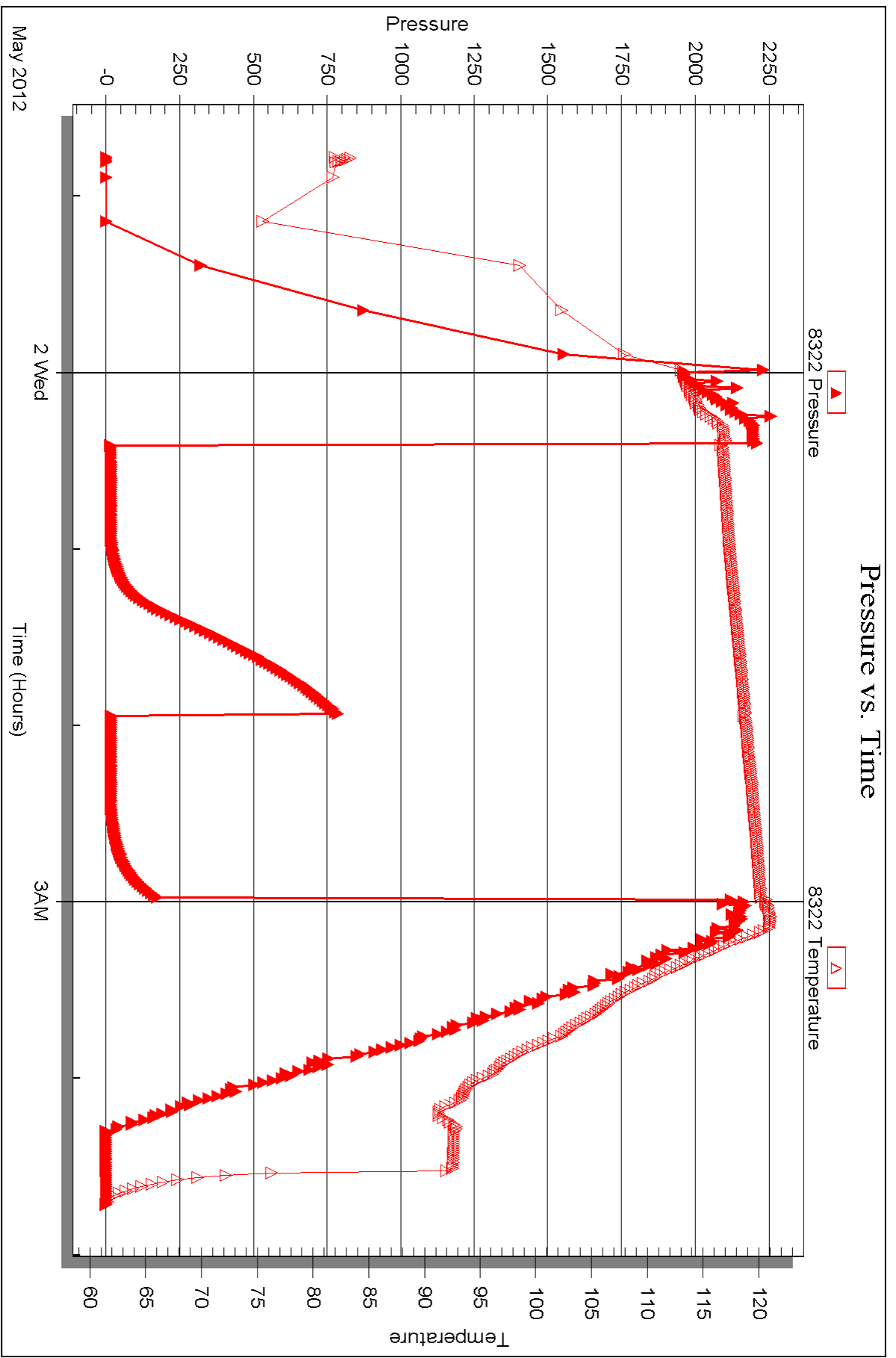
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy LLC**

PO Box 8037
Wichita KS 67208

ATTN: Robert Hendrix

13-16s-25w Ness,KS

Dietterich Trust Unit A #1-13

Start Date: 2012.05.02 @ 11:54:00

End Date: 2012.05.02 @ 18:24:39

Job Ticket #: 45844 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.04 @ 11:50:51



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

ATTN: Robert Hendrix

Job Ticket: 45844

DST#: 2

Test Start: 2012.05.02 @ 11:54:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:55

Time Test Ended: 18:24:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4496.00 ft (KB) To 4521.00 ft (KB) (TVD)

Reference Elevations: 2521.00 ft (KB)

Total Depth: 4521.00 ft (KB) (TVD)

2511.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8652 Inside

Press @ RunDepth: 18.44 psig @ 4498.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.02

End Date: 2012.05.02

Last Calib.: 2012.05.02

Start Time: 11:54:00

End Time: 18:24:39

Time On Btm: 2012.05.02 @ 14:07:40

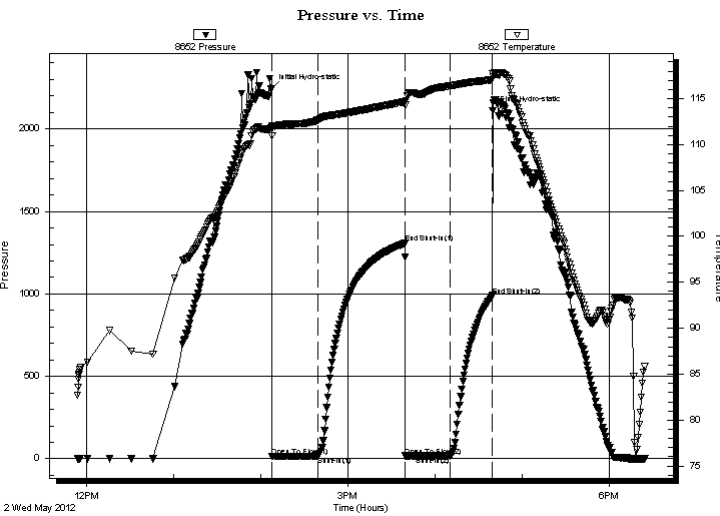
Time Off Btm: 2012.05.02 @ 16:39:54

TEST COMMENT: IF- Weak Surface Blow

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.14	112.01	Initial Hydro-static
1	15.45	110.99	Open To Flow (1)
32	17.18	112.65	Shut-In(1)
92	1306.63	114.67	End Shut-In(1)
92	17.85	114.31	Open To Flow (2)
123	18.44	116.38	Shut-In(2)
152	990.18	117.07	End Shut-In(2)
153	2113.07	117.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m (Few Oil Spots in Tool)	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

ATTN: Robert Hendrix

Job Ticket: 45844

DST#: 2

Test Start: 2012.05.02 @ 11:54:00

Tool Information

Drill Pipe:	Length: 4492.00 ft	Diameter: 3.80 inches	Volume: 63.01 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 12000.00 lb
			<u>Total Volume: 63.01 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4496.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	47.00 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			4475.00	
Shut In Tool	5.00			4480.00	
Hydraulic tool	5.00			4485.00	
Safety Joint	2.00			4487.00	
Packer	5.00			4492.00	22.00 Bottom Of Top Packer
Packer	4.00			4496.00	
Stubb	1.00			4497.00	
Perforations	1.00			4498.00	
Recorder	0.00	8652	Inside	4498.00	
Recorder	0.00	8322	Outside	4498.00	
Perforations	20.00			4518.00	
Bullnose	3.00			4521.00	25.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cobalt Energy LLC

Dietterich Trust Unit A #1-13

PO Box 8037
Wichita KS 67208

13-16s-25w Ness,KS

Job Ticket: 45844

DST#: 2

ATTN: Robert Hendrix

Test Start: 2012.05.02 @ 11:54:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% _m (Few Oil Spots in Tool)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8652

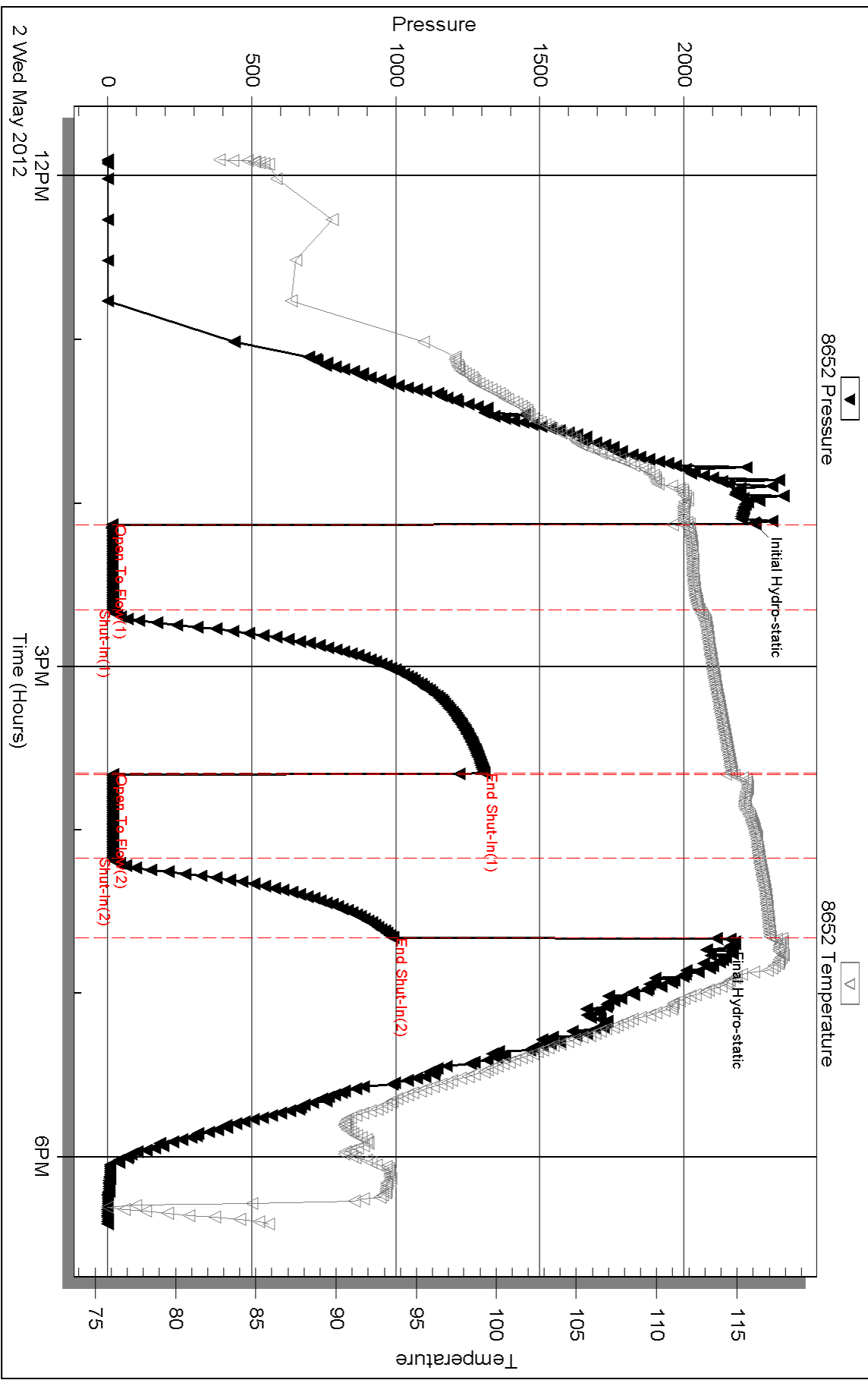
Inside

Cobalt Energy LLC

13-16s-25w Ness, KS

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45844

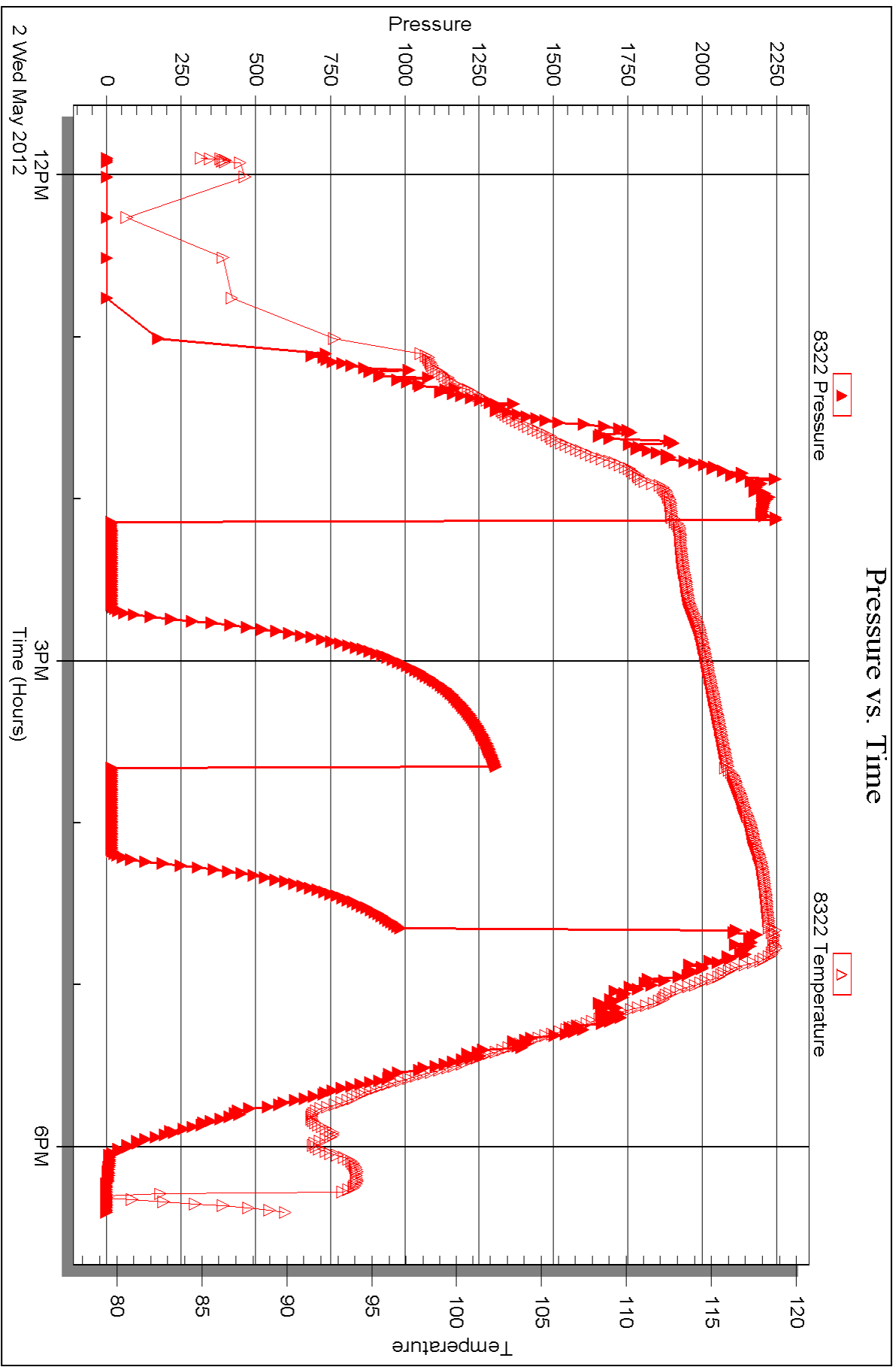
Printed: 2012.05.04 @ 11:50:53

Serial #: 8322

Outside Cobalt Energy LLC

13-16s-25w Ness, KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45844

Printed: 2012.05.04 @ 11:50:53



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

MAY 04 2012

NO. 45843

BY: _____

Well Name & No. Dietterich Trust Unit "A" #1-13 Test No. DST #1 Date 5-1-12
 Company Cobalt Energy LLC Elevation 2521 KB 2511 GL _____
 Address P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Southwind Rigs #1
 Location: Sec. 13 Twp. 16S Rge. 25W Co. Ness State KS

Interval Tested 4469 - 4511 Zone Tested Mississippian
 Anchor Length 42' Drill Pipe Run 4462 Mud Wt. 9.4
 Top Packer Depth 4465 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 4469 Wt. Pipe Run 0 WL 8.4
 Total Depth 4511 Chlorides 2800 ppm System LCM 116
 Blow Description IF - 1/4" Blow Died to Weak Surface Blow
ISI - No Blow
EF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>OCM (with 5Rim of Oil on Top)</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 8 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2211 Test 1250' T-On Location 22:10
 (B) First Initial Flow 16 Jars No Jars T-Started 22:47
 (C) First Final Flow 17 Safety Joint 75' T-Open 00:24
 (D) Initial Shut-In 789 Circ Sub N/C T-Pulled 2:59
 (E) Second Initial Flow 18 Hourly Standby T-Out 4:43
 (F) Second Final Flow 18 Mileage 118 R/T 182.90 Comments _____
 (G) Final Shut-In 176 Sampler _____
 (H) Final Hydrostatic 2118 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1507.90
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1507.90

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 30

Approved By [Signature] Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012
BY: _____

Test Ticket

NO. 45844

Well Name & No. Dietterich Trust Unit "A" #1-13 Test No. DST #2 Date 5-2-12
 Company Cobalt Energy LLC Elevation 2521 KB 2511 GL _____
 Address P.O. Box 8037 Wichita KS 67208
 Co. Rep / Geo. Robert Hendrix Rig Southwind Rig #1
 Location: Sec. 13 Twp. 16s Rge. 25w Co. Ness State KS

Interval Tested 4496 - 4521 Zone Tested Mississippi
 Anchor Length 25 Drill Pipe Run 4492 Mud Wt. 9.3
 Top Packer Depth 4492 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4496 Wt. Pipe Run 0 WL 8.4
 Total Depth 4521 Chlorides 2500 ppm System LCM 116

Blow Description IF - Weak Surface Blow
ISI - No Blow
FF - No Blow
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud (Few Oil Spots in Tool)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 113 Gravity API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2246 Test 1250 T-On Location 10:32
 (B) First Initial Flow 15 Jars T-Started 11:54
 (C) First Final Flow 17 Safety Joint 75 T-Open 14:07
 (D) Initial Shut-In 1306 Circ Sub N/C T-Pulled 16:40
 (E) Second Initial Flow 17 Hourly Standby T-Out 18:24
 (F) Second Final Flow 18 Mileage 118 R/T 182.90 Comments _____
 (G) Final Shut-In 990 Sampler _____
 (H) Final Hydrostatic 2113 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1507.90 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1507.90
 MP/DST Disc't _____

Approved By Robert D Hendrix Our Representative William M...

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



DIGITAL LOG (785) 625-3858

Radiation Guard Log

15-135-25,382-00-00

API No.

Company **Cobalt Energy, LLC**
 Well **Dieterich Trust Unit A #1-13**
 Field **N/A**
 County **Ness** State **Kansas**

Location **2470' FSL & 2600' FWL**

Sec: **13** Twp: **16 S** Rge: **25 W**

Permanent Datum **Ground Level** Elevation **2511**
 Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Other Services
None
 Elevation
K.B. 2521
D.F. 2511
G.L. 2511

Date	5/2/2012
Run Number	One
Depth Driller	4521
Depth Logger	4524
Bottom Logged Interval	4523
Top Log Interval	200
Casing Driller	8.625 @ 218
Casing Logger	219
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity,ppm CL	2,500
Density / Viscosity	9.35 54
pH / Fluid Loss	10.5 8.4
Source of Sample	Flowline
Rm @ Meas. Temp	.80 @ 79
Rmf @ Meas. Temp	.60 @ 79
Rmc @ Meas. Temp	1.08 @ 79
Source of Rmf / Rmc	Charts
Rm @ BHT	.52 @ 121
Operating Rig Time	3 1/2 Hours
Max Rec. Temp. F	121
Equipment Number	17
Location	Hays
Recorded By	D. Martin
Witnessed By	Robert Hendrix

<<< 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

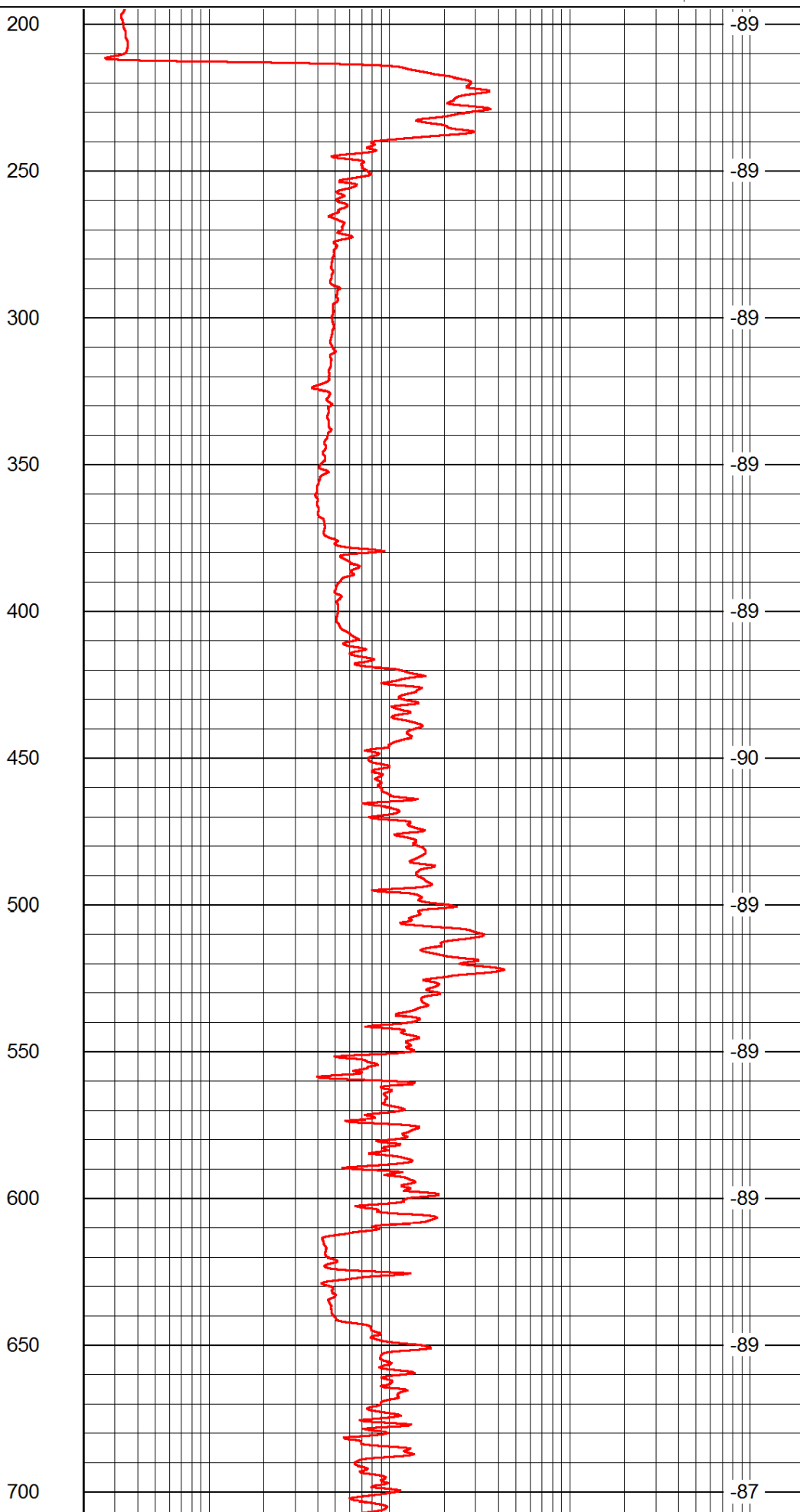
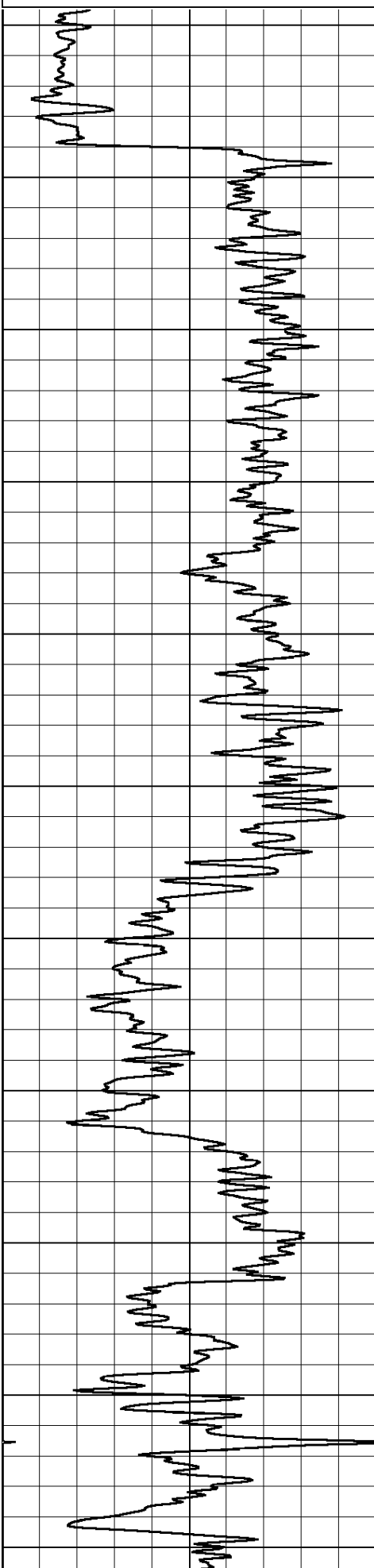
 Ransom, KS
 Hwy 4 & Hwy 283 Junction, 6 W to M Rd.,
 1 N, 1 1/2 W, N Into

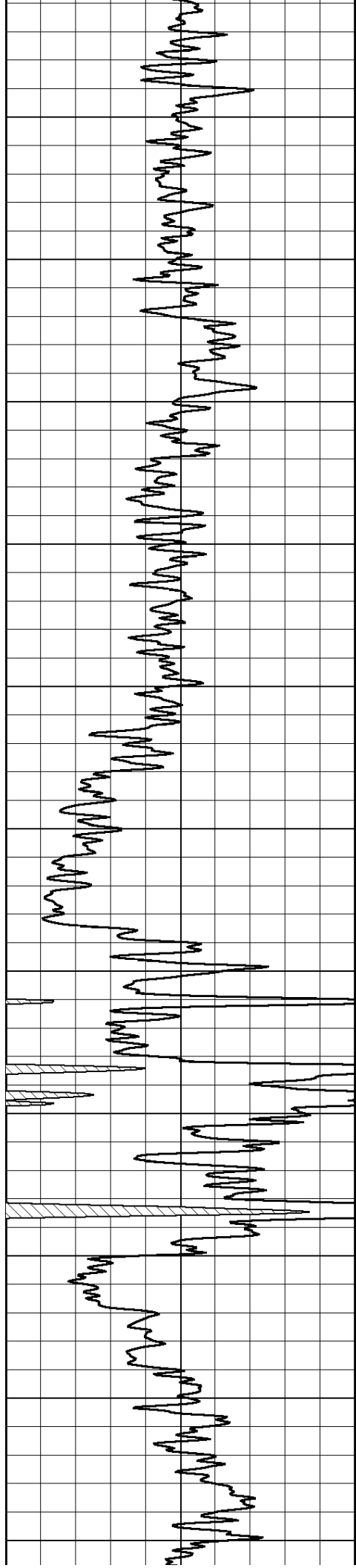
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 Presentation Format: rag2in
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 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150

0.2 lgrd 2000

LSPD





750

800

850

900

950

1000

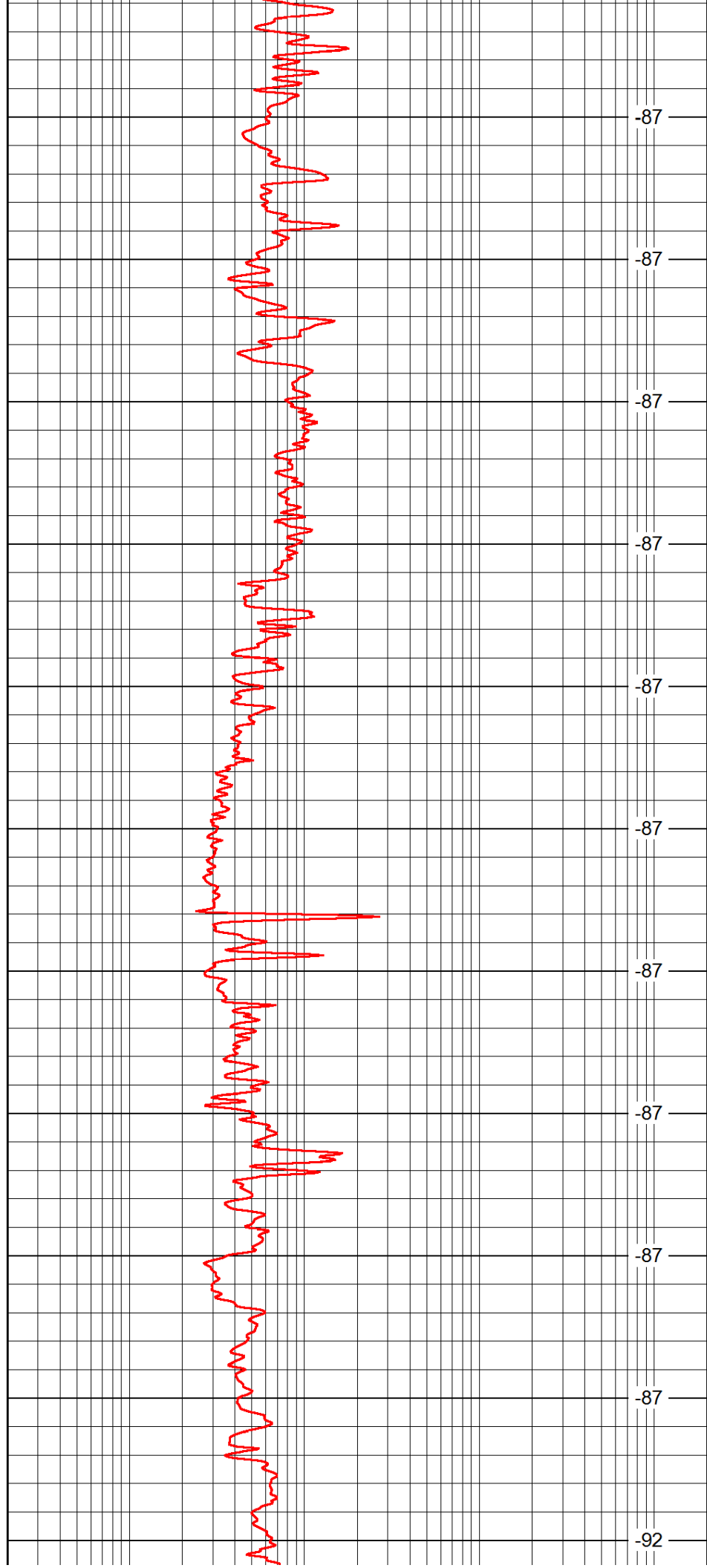
1050

1100

1150

1200

1250



-87

-87

-87

-87

-87

-87

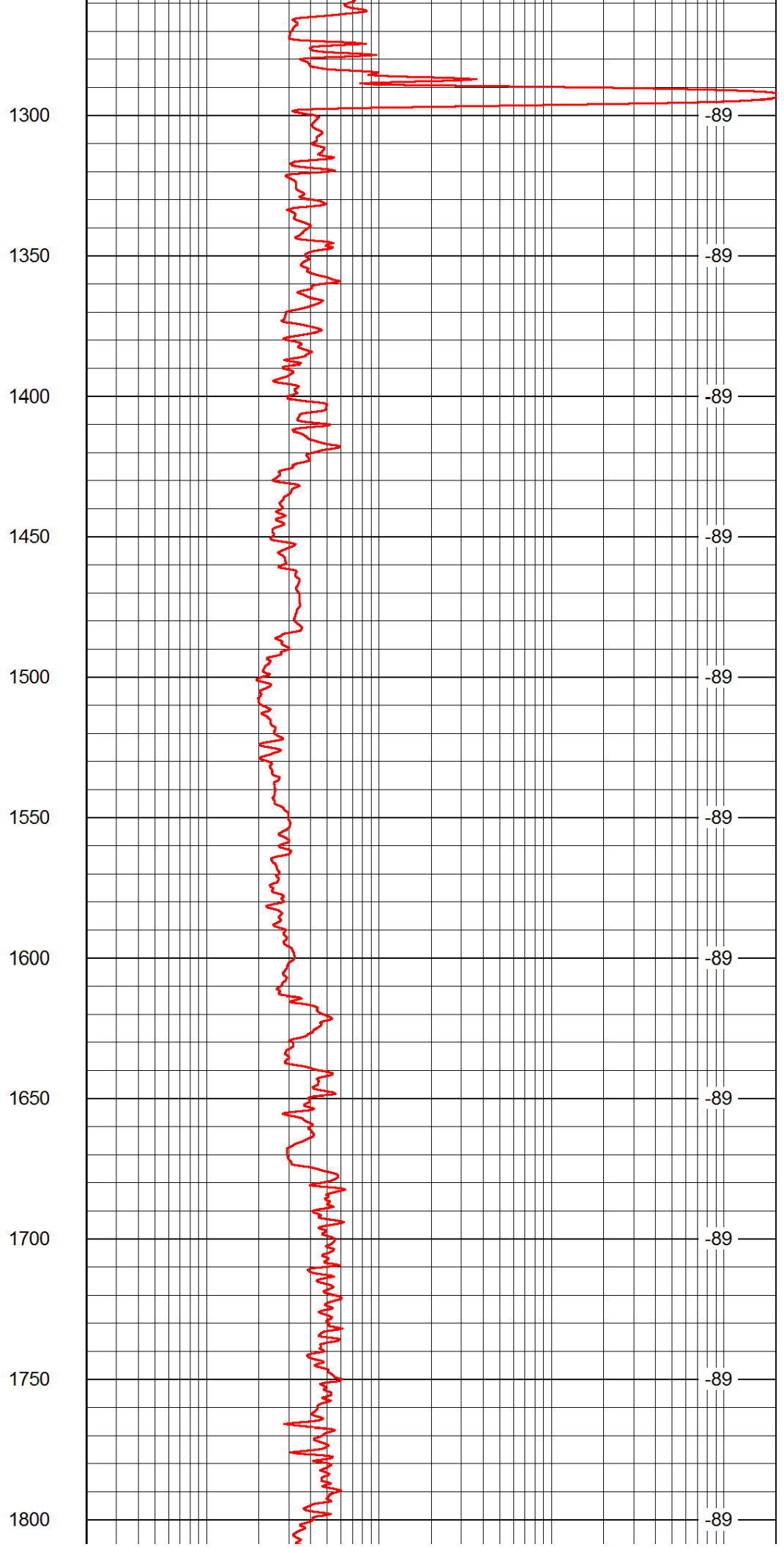
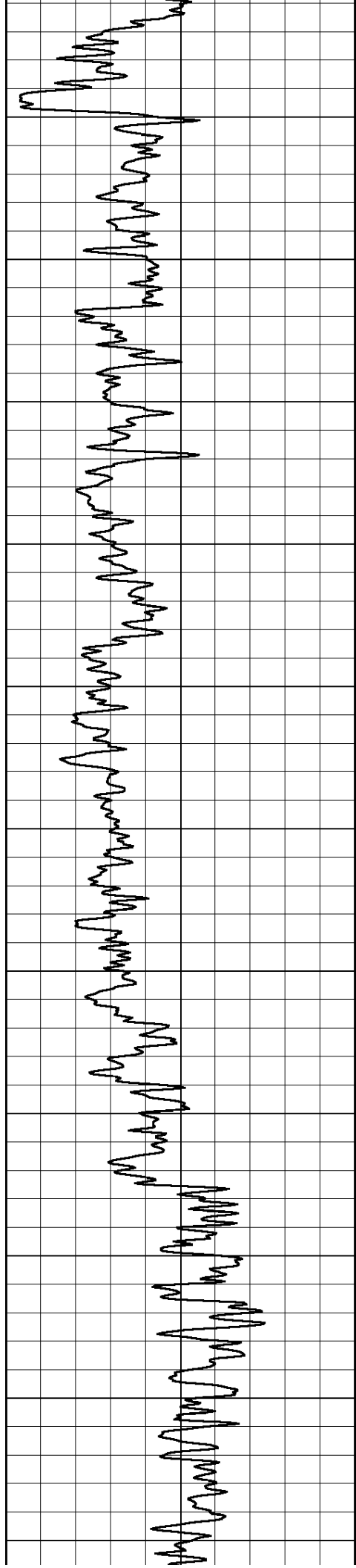
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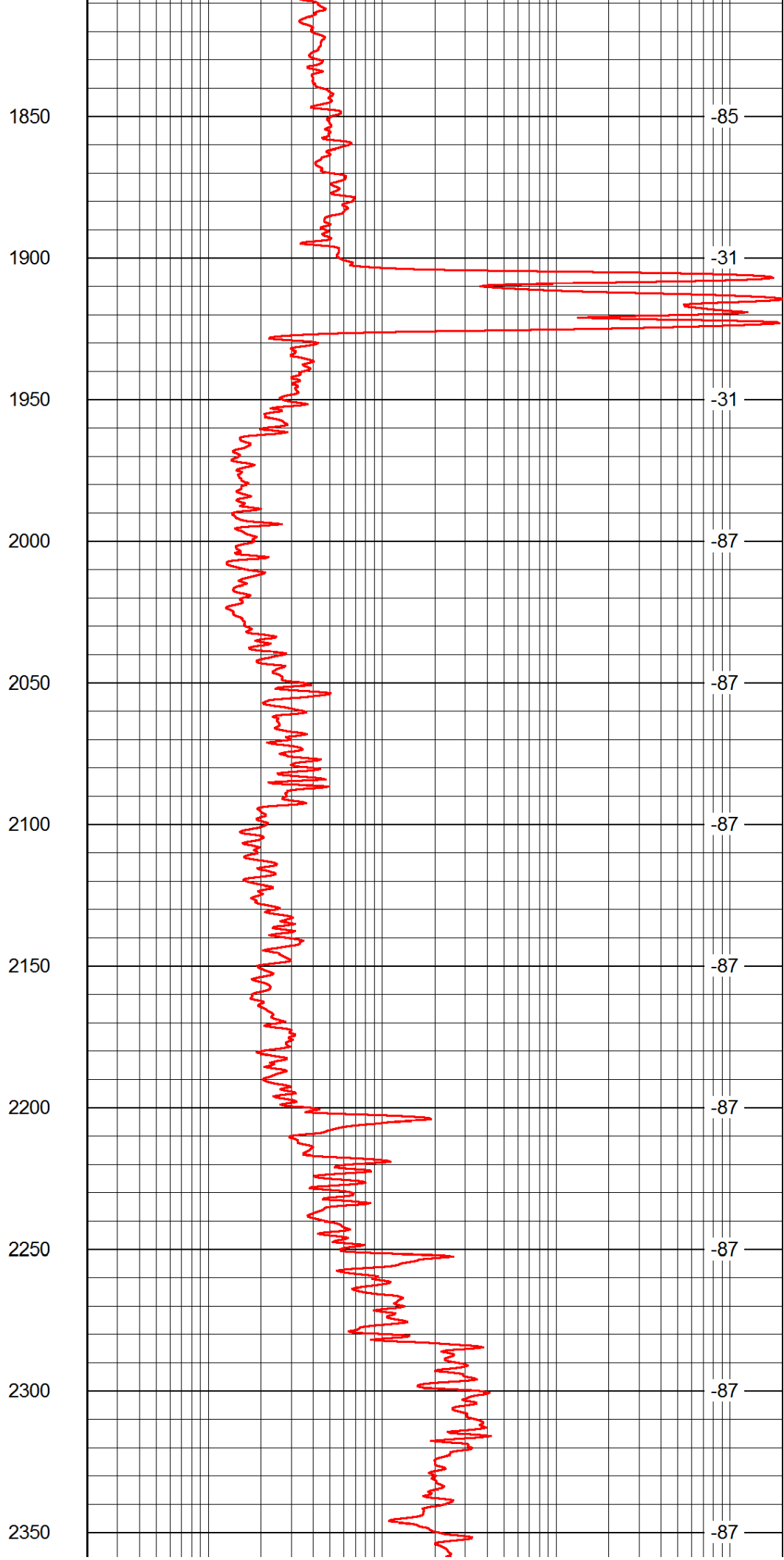
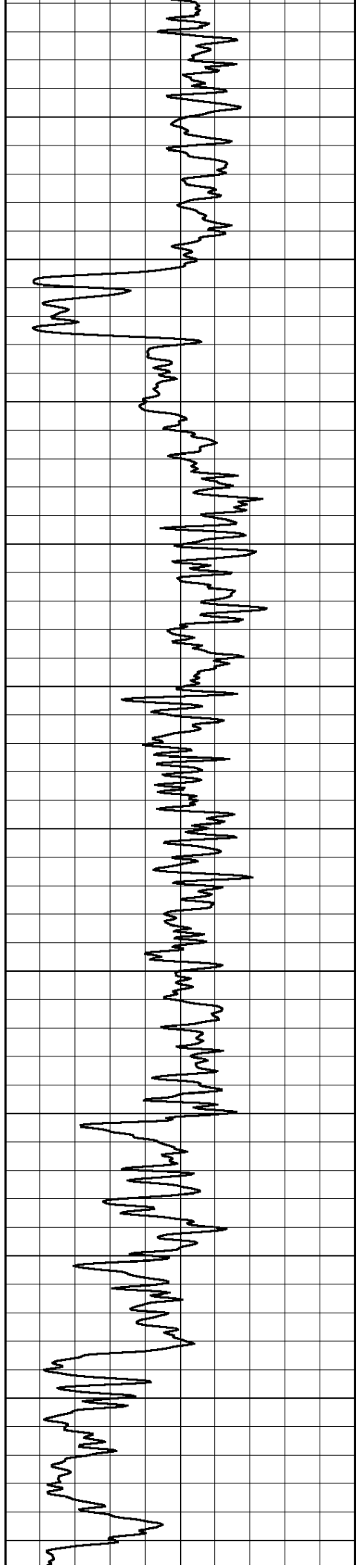
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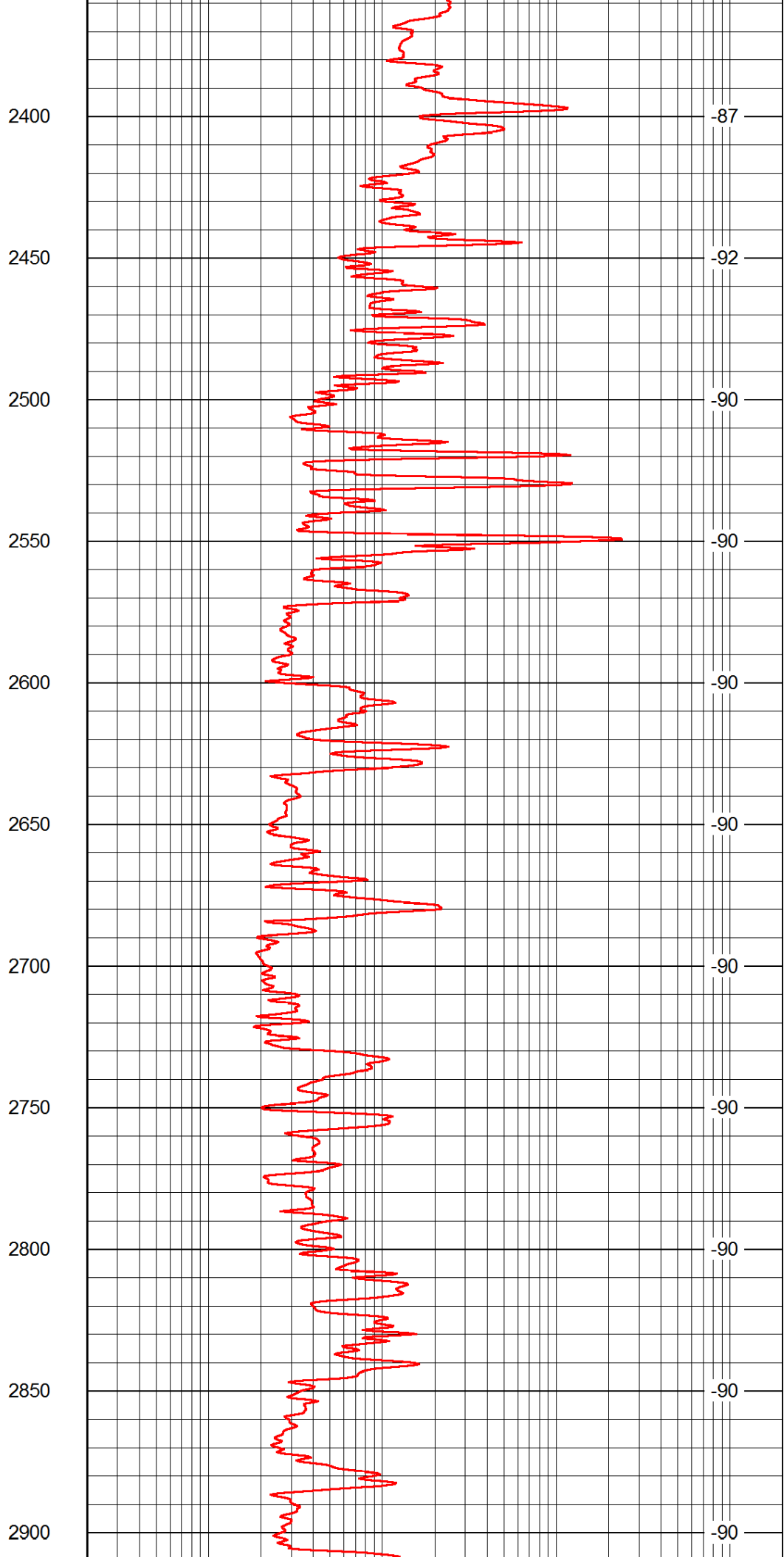
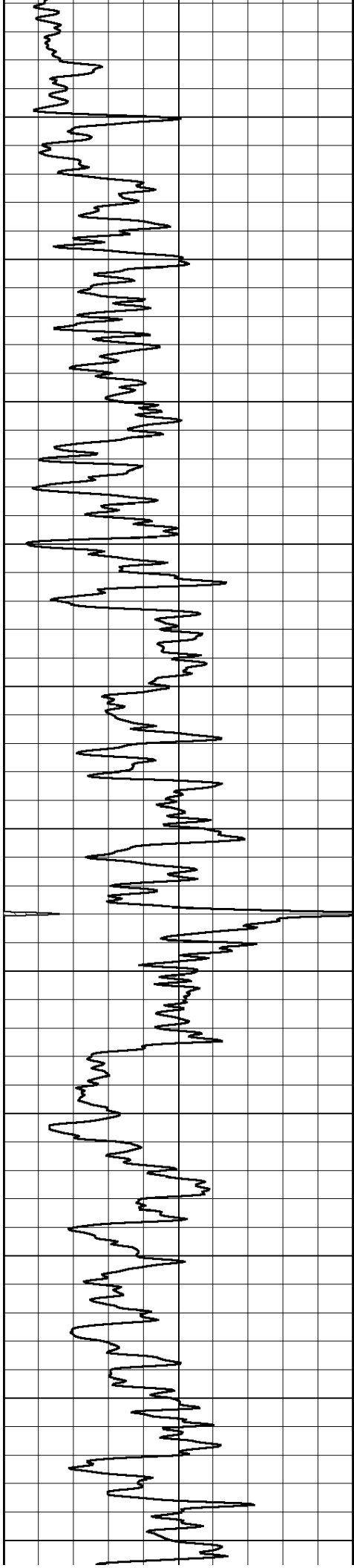
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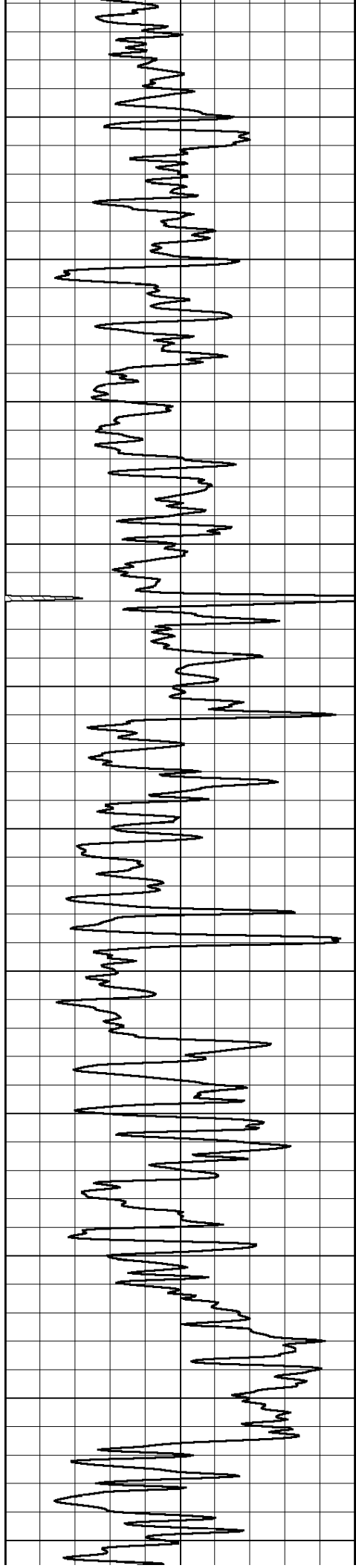
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-92









2950

3000

3050

3100

3150

3200

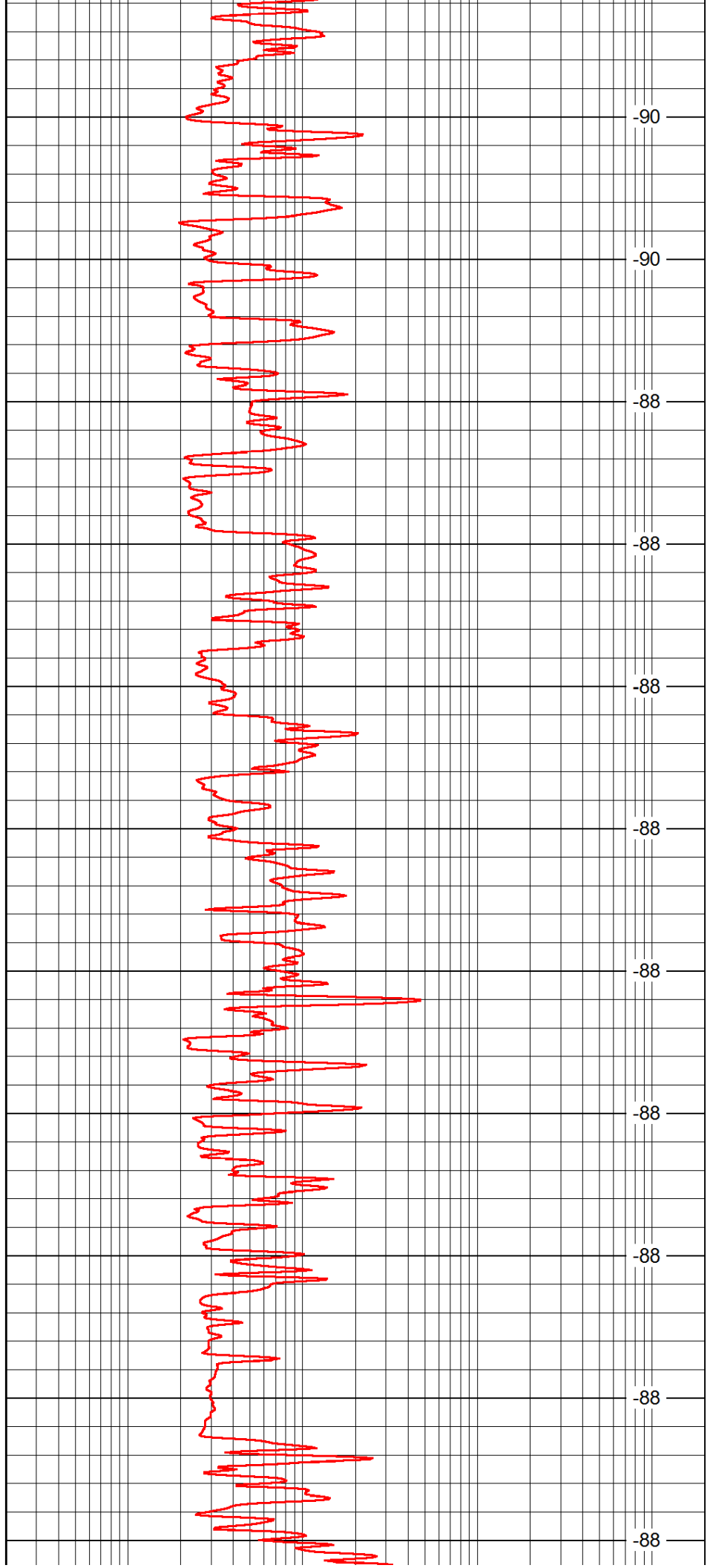
3250

3300

3350

3400

3450



-90

-90

-88

-88

-88

-88

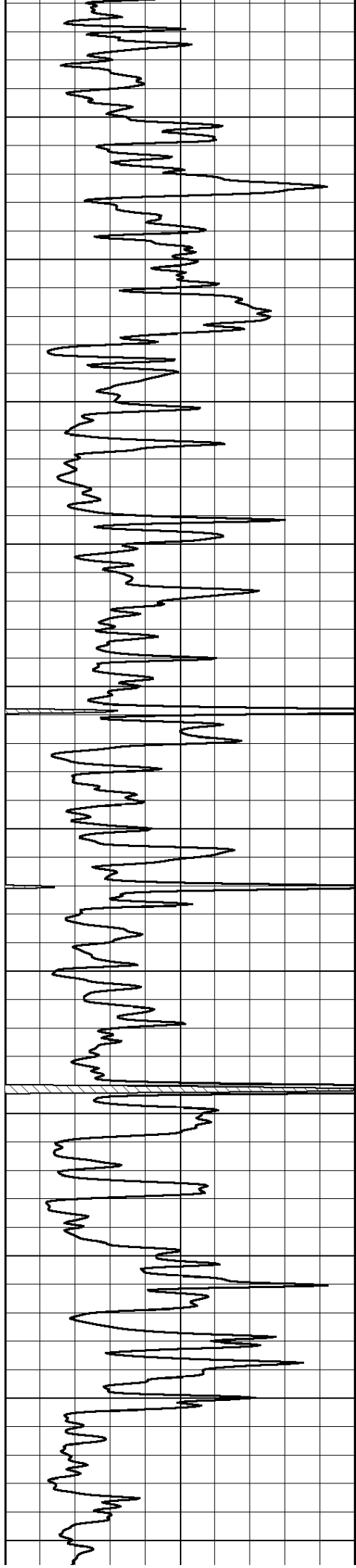
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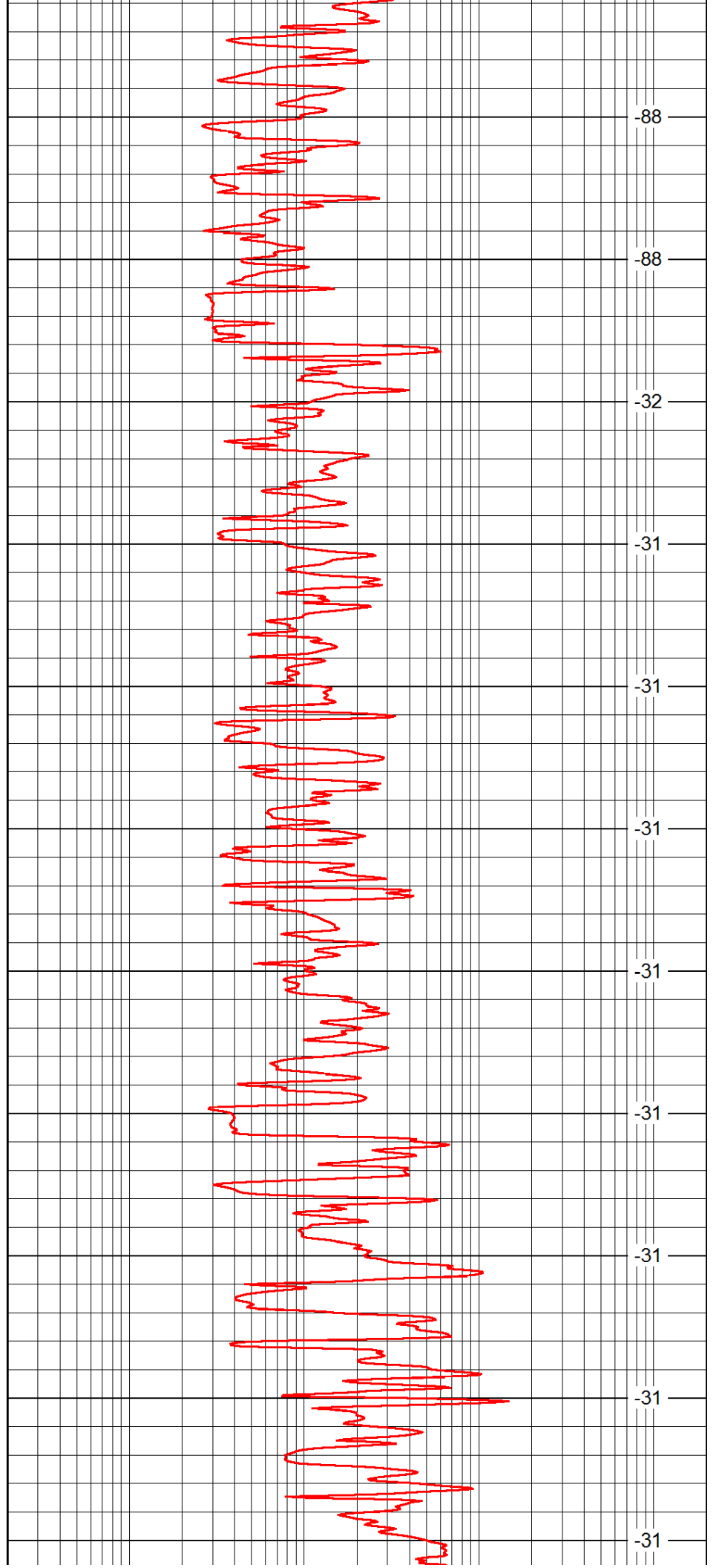
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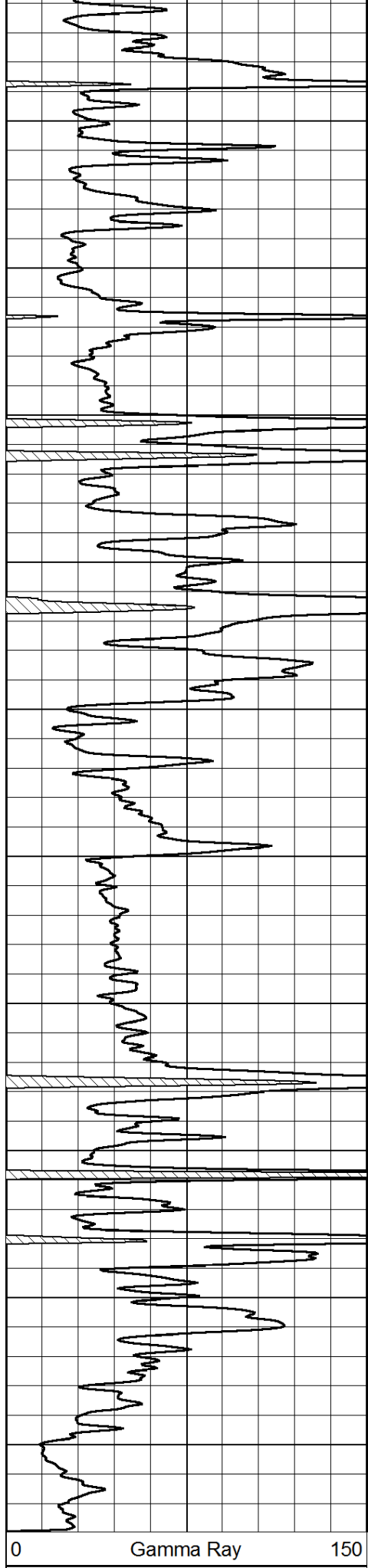
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3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000



-88
-88
-32
-31
-31
-31
-31
-31
-31
-31
-31



4050

4100

4150

4200

4250

4300

4350

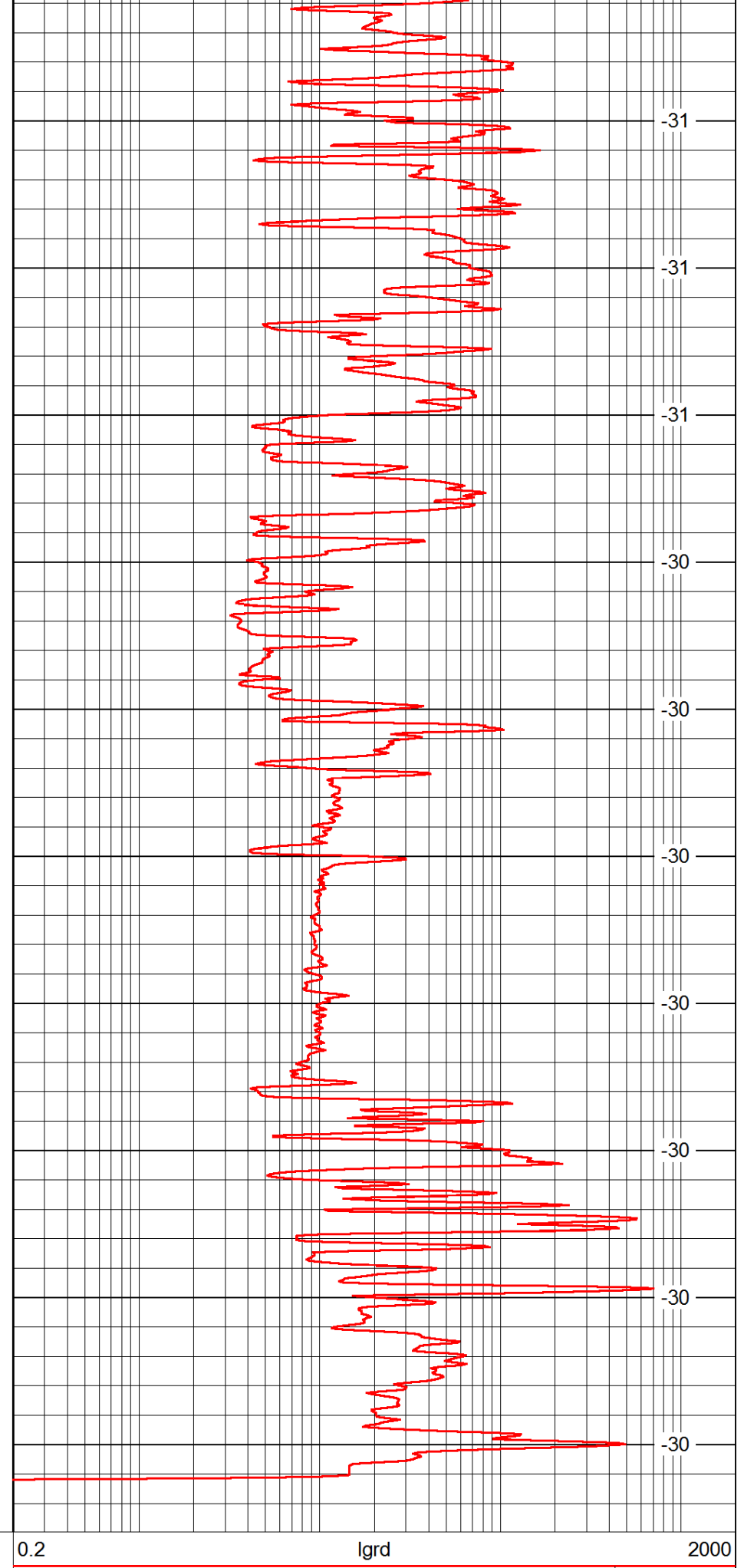
4400

4450

4500

Gamma Ray

150



-31

-31

-31

-30

-30

-30

-30

-30

-30

-30

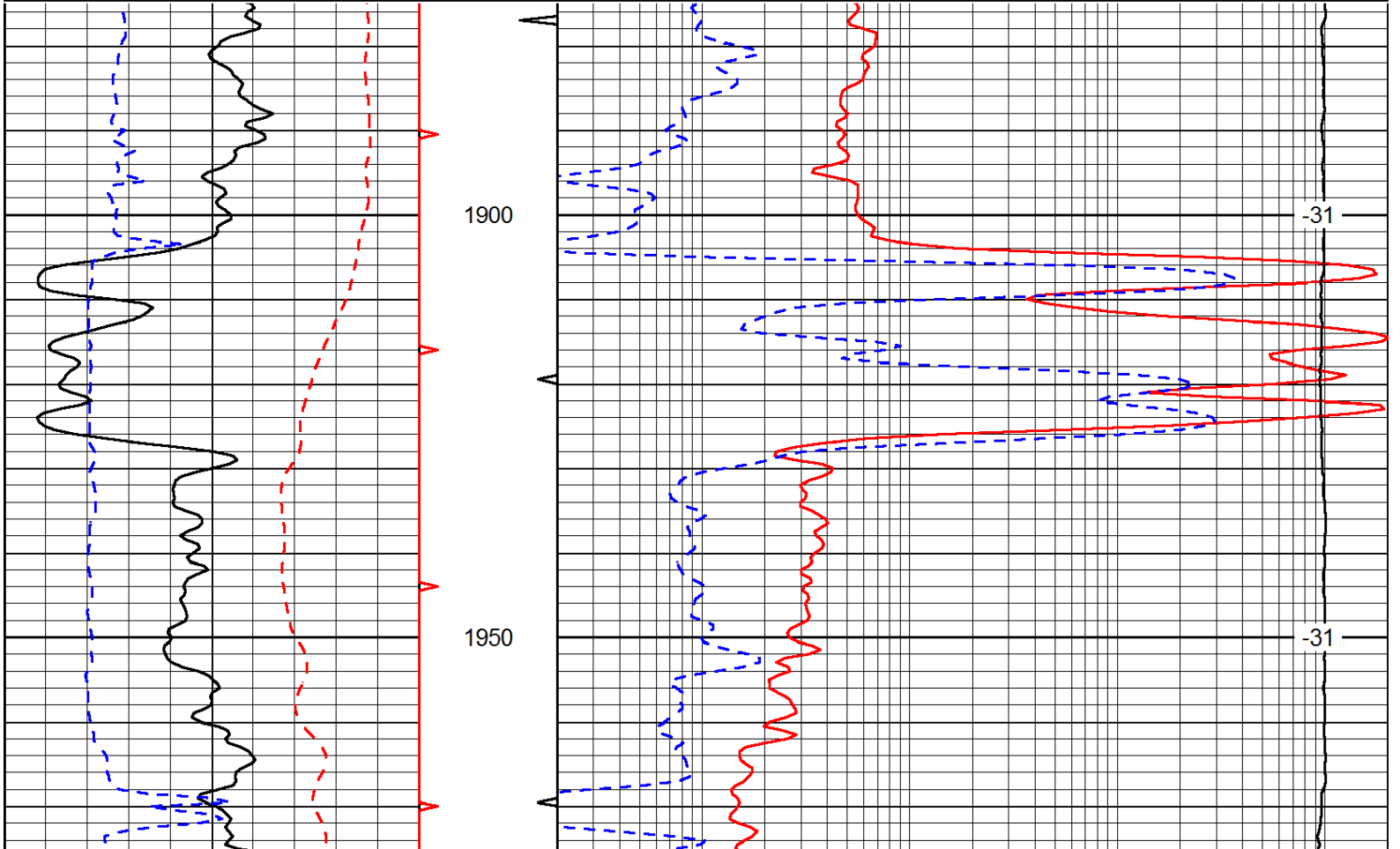
lgd

2000

LSPD

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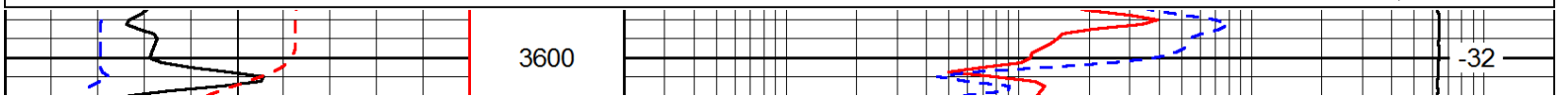
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6	Caliper (GAPI)	16	560	Neuton	2160
-200	SP (mV)	0	15000	Line Tension	0
LSPD					

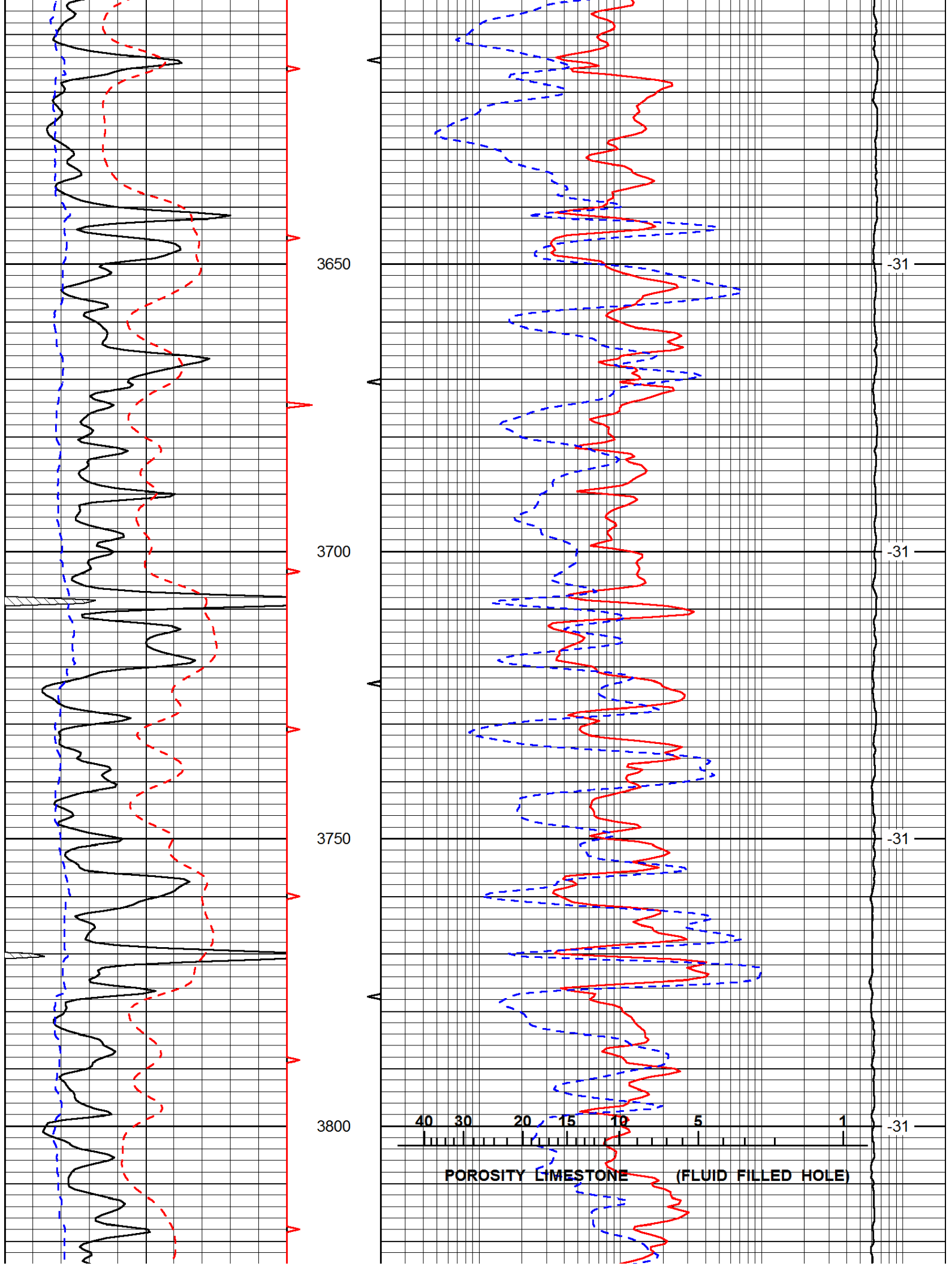


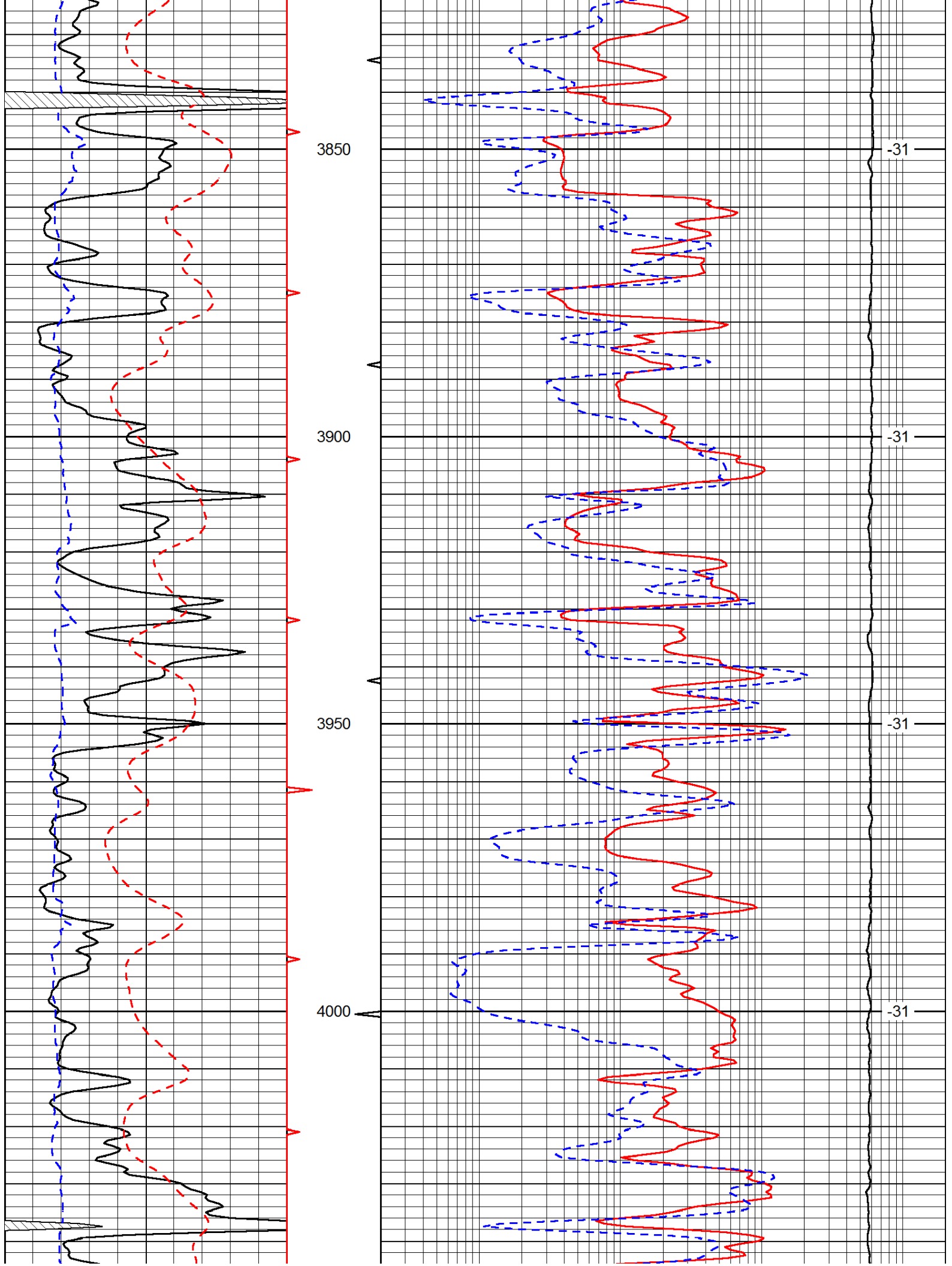
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-200	SP (mV)	0	15000	Line Tension	0
LSPD					

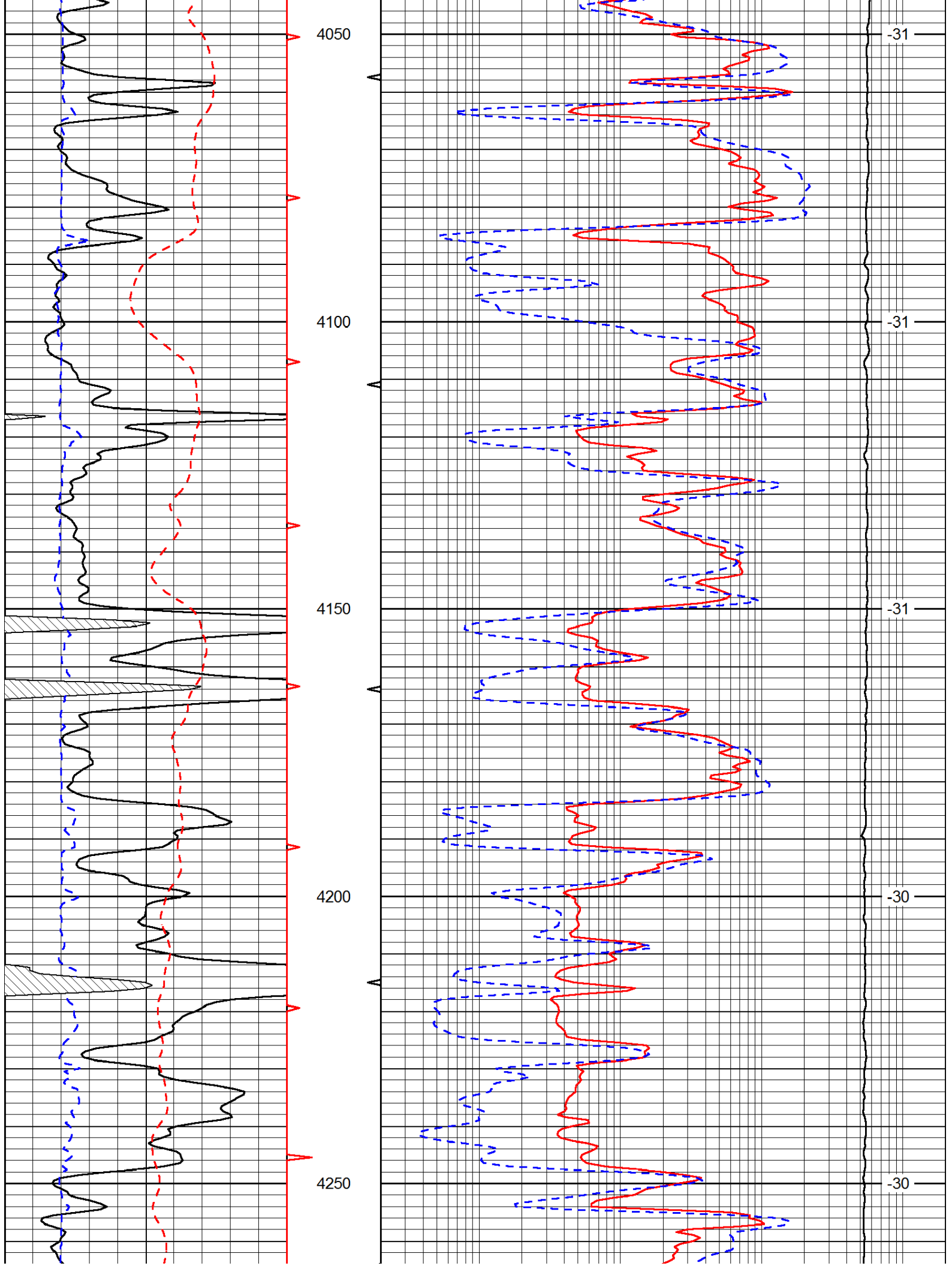
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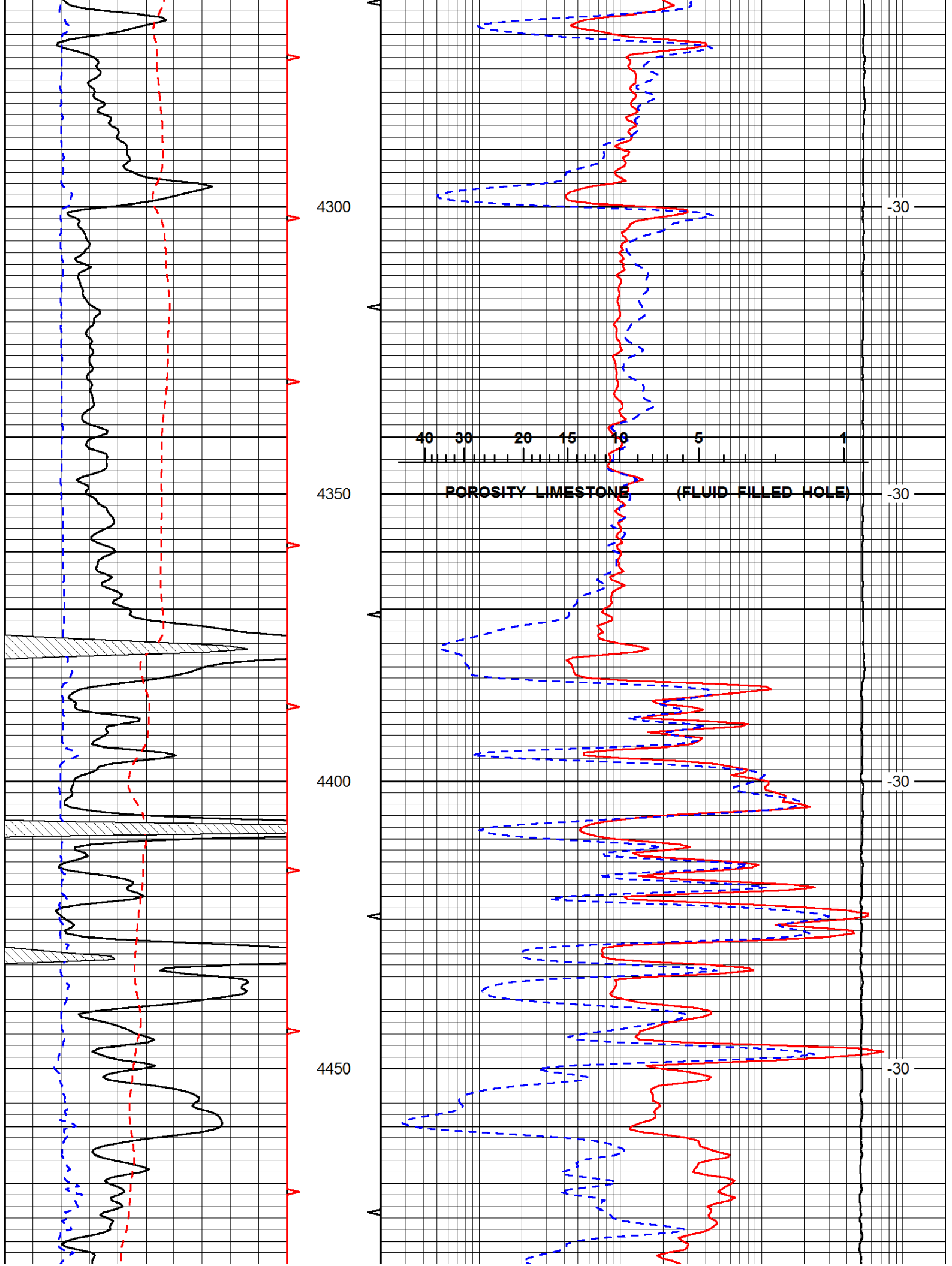
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6	Caliper (GAPI)	16	560	Neuton	2160
-200	SP (mV)	0	15000	Line Tension	0
LSPD					

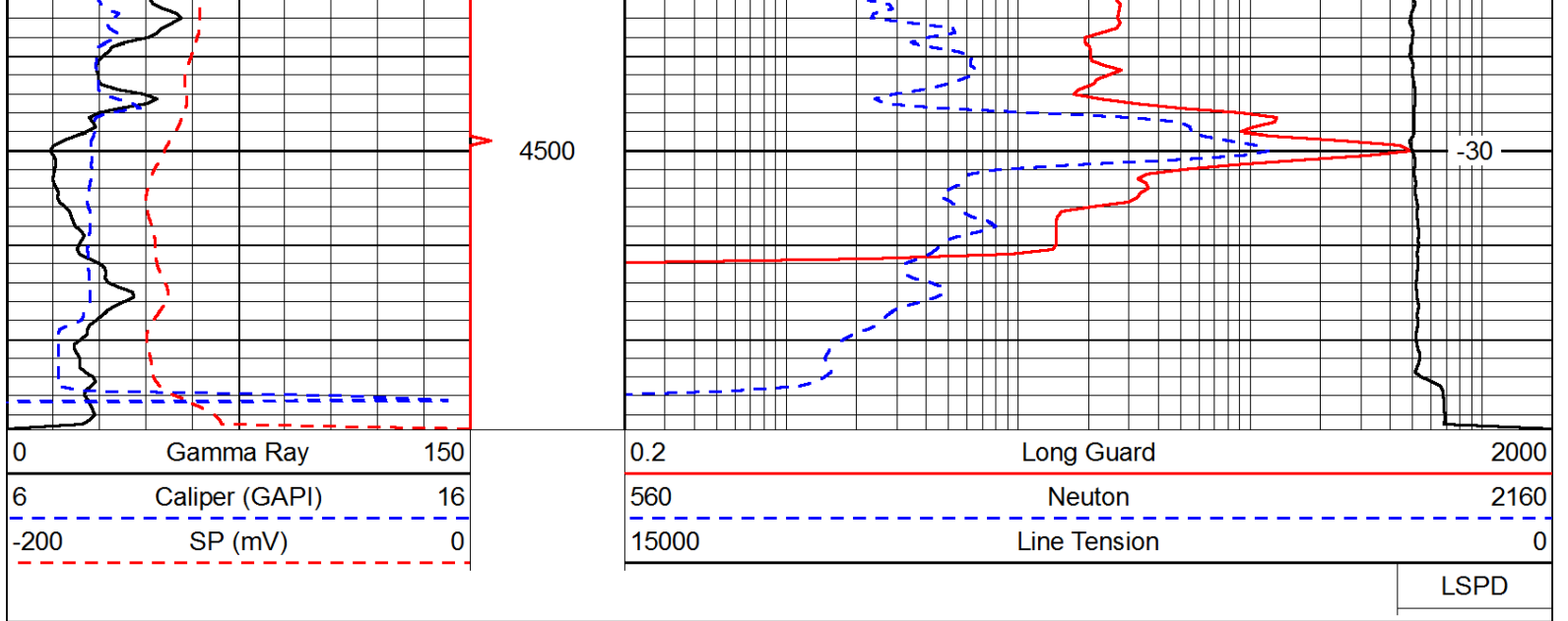












ALLIED OIL & GAS SERVICES, LLC 053518

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend, KS

SURFACE

DATE <u>4-25-12</u>	SEC <u>13</u>	TWP. <u>16N</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:10 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Dietrich</u>	WELL # <u>1-13</u>	LOCATION <u>Arnold, KS North</u>	COUNTY <u>Deer</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)		<u>1/2 east north note</u>					

CONTRACTOR Southwind #1 OWNER Cobalt Energy

TYPE OF JOB Surface

HOLE SIZE 16 1/4 T.D. 216

CASING SIZE 8 3/4 DEPTH 216

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 150T

PERFS.

DISPLACEMENT 12.114 BBL

COMMON 150 @ 16.25 2,437.50

POZMIX @

GEL 3 @ 21.25 63.75

CHLORIDE 5 @ 58.20 291.00

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Star

398 HELPER KEVIN E

BULK TRUCK

482-231 DRIVER Denise W

BULK TRUCK

DRIVER

HANDLING 162 @ 2.10 340.20

MILEAGE 7.4 x 28x. 2.35 486.92

TOTAL 3,619.37

REMARKS:

Pipe to bottom - Circ. Csg.

1 1/2 sig mix. Hook up

dump mix 150 sks Class

A. 290 cc 20% gel. Displace

at 12.114 BBL water shut

44% percent and circ.

sig down

1/4 down @ 2.15 pm

CHARGE TO: Cobalt Energy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____

MILEAGE Hum 28 @ 7.00 196.00

MANIFOLD @ _____

lum 28 @ 4.00 112.00

TOTAL 1433.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, 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 Derby Keeser

SIGNATURE Derby Keeser

SALES TAX (If Any) _____

TOTAL CHARGES 5,052.37

25% 1,263.09

DISCOUNT _____ IF PAID IN 30 DAYS

3,789.28

ALLIED OIL & GAS SERVICES, LLC 053557

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend KS

PLU

DATE <u>5-3-12</u>	SEC. <u>13</u>	TWP. <u>16S</u>	RANGE <u>25W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 A</u>	JOB FINISH <u>12:00 pm</u>
Dietrich Trust LEASE "A"		WELL # <u>1-13</u>		LOCATION <u>Arnold KS 1 North, 3/4 E, North</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>into</u>			

CONTRACTOR Southwind Drilling
 TYPE OF JOB Rotary
 HOLE SIZE 12 1/4 T.D. 45212
 CASING SIZE 8 5/8 DEPTH 218
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH 1975
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. All
 PERFS.
 DISPLACEMENT freshwater / Rig Mud

OWNER Cobalt Energy
 CEMENT
 AMOUNT ORDERED 290 sx 60/40 4% gel

EQUIPMENT
 PUMP TRUCK CEMENTER Sham K
 # 224 HELPER Jon P
 BULK TRUCK
 # DRIVER Brandon B
 BULK TRUCK
 # DRIVER

COMMON	<u>174</u>	@ <u>16.25</u>	<u>2,827.50</u>
POZMIX	<u>116</u>	@ <u>8.50</u>	<u>986.00</u>
GEL	<u>10</u>	@ <u>21.25</u>	<u>212.50</u>
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>306.6</u>	@ <u>2.10</u>	<u>643.86</u>
MILEAGE	<u>12.97 x 28</u>	<u>2.35</u>	<u>853.42</u>
TOTAL			<u>5,523.28</u>

REMARKS:

Arrive on location hold safety meeting
Rig up.
1) mix 50 sx at 1975', 2) 80sx at 1130', 3)
mix 55 sx at 60', 4) 40sx at 250', 5)
mix 20sx at 60', 6) RH mix 30 sx.
Rig Down and leave location

SERVICE

DEPTH OF JOB	<u>1975</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 28</u>	@ <u>7.00</u>	<u>196.00</u>
MANIFOLD		@	
	<u>Hum 28</u>	@ <u>4.00</u>	<u>112.00</u>
		@	

CHARGE TO: Cobalt Energy
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 1558.00

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>7,081.28</u>
DISCOUNT <u>25%</u>	<u>1,770.32</u>
	<u>5,310.96</u>

IF PAID IN 30 DAYS

PRINTED NAME X Derby Keever
 SIGNATURE X Derby Keever