

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1272487  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or  
Recompletion Date

Date Reached TD

Completion Date or  
Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 TCores aken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Blue Goose Drilling Company, Inc

**4-18-27w Lane Co KS**

P.O. Box 1413  
Great Bend KS  
67530  
ATTN: Ken Wallace

**Borell H 1**

Job Ticket: 64483

**DST#: 1**

Test Start: 2015.11.04 @ 14:26:15

## GENERAL INFORMATION:

Formation: **L**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **16:09:00** Tester: **Mike Roberts**  
 Time Test Ended: **18:51:45** Unit No: **65**  
**Interval: 4213.00 ft (KB) To 4250.00 ft (KB) (TVD)** Reference Elevations: **2623.00 ft (KB)**  
 Total Depth: **4250.00 ft (KB) (TVD)** **2614.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **9.00 ft**

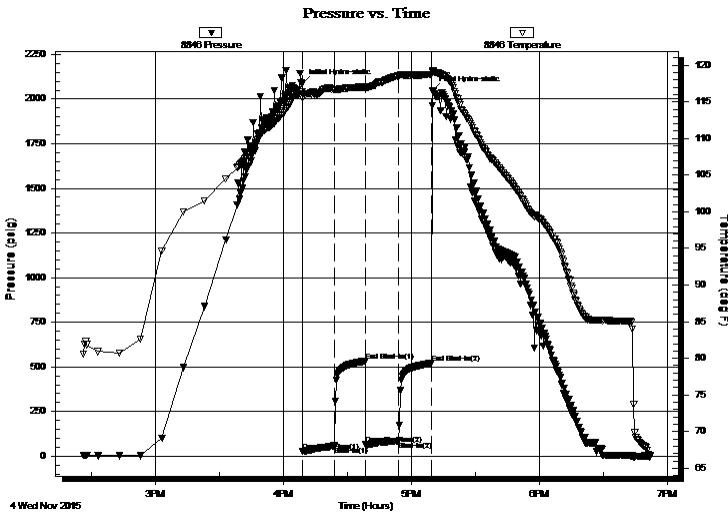
## Serial #: 8846

**Inside**

Press @ Run Depth: **84.05 psig @ 4245.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2015.11.04** End Date: **2015.11.04** Last Calib.: **2015.11.04**  
 Start Time: **14:26:15** End Time: **18:51:45** Time On Btm: **2015.11.04 @ 16:08:45**  
 Time Off Btm: **2015.11.04 @ 17:10:00**

TEST COMMENT: IF:Weak Surface blow died in 3 minutes  
 IS:No return blow  
 FF:No blow  
 FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.30	116.44	Initial Hydro-static
1	28.03	115.50	Open To Flow (1)
15	57.15	116.64	Shut-In(1)
30	531.76	117.03	End Shut-In(1)
30	65.84	116.75	Open To Flow (2)
46	84.05	118.56	Shut-In(2)
61	519.69	118.74	End Shut-In(2)
62	2048.58	119.29	Final Hydro-static

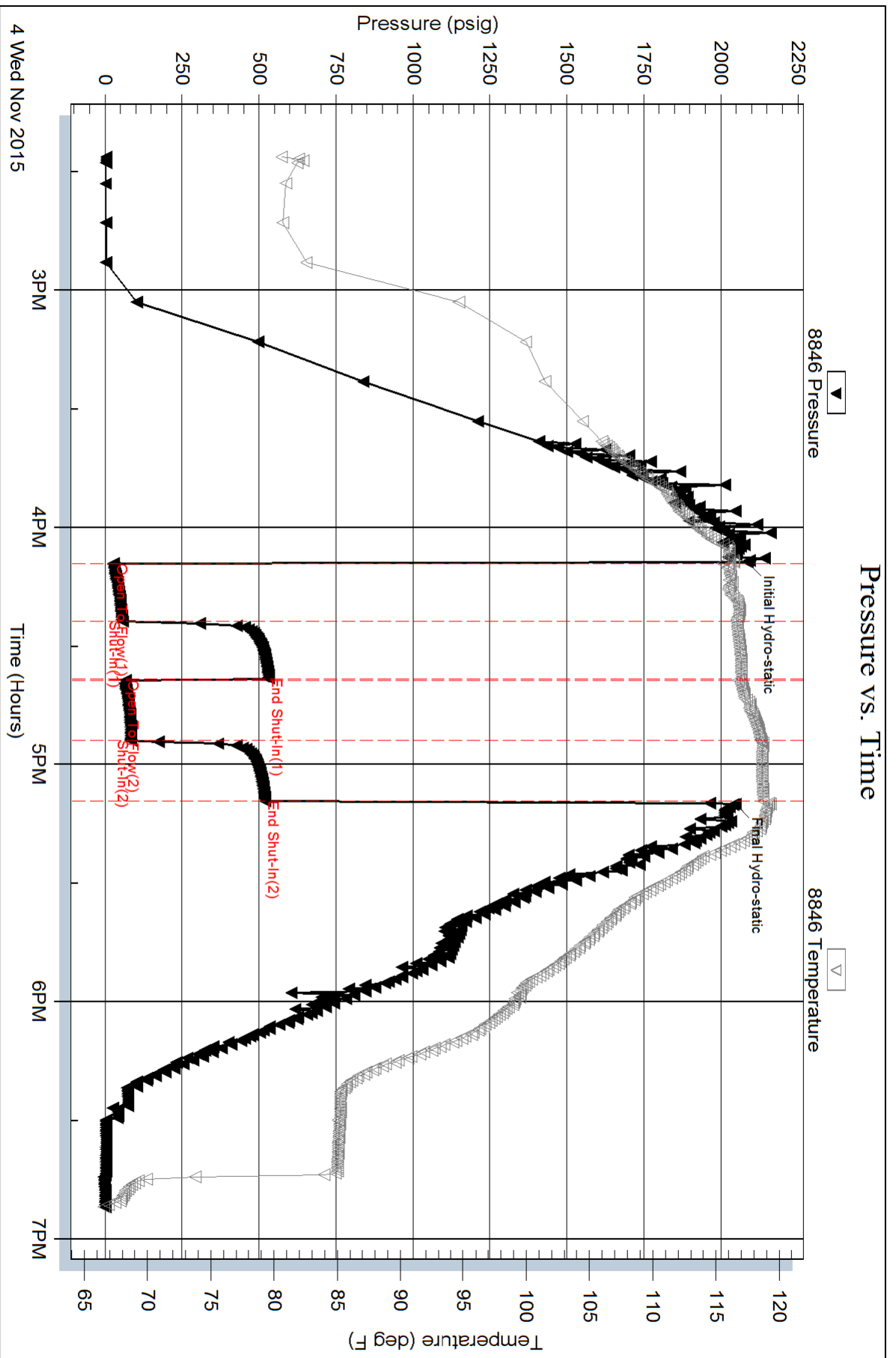
## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mud 100% m	0.61

## Gas Rates

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





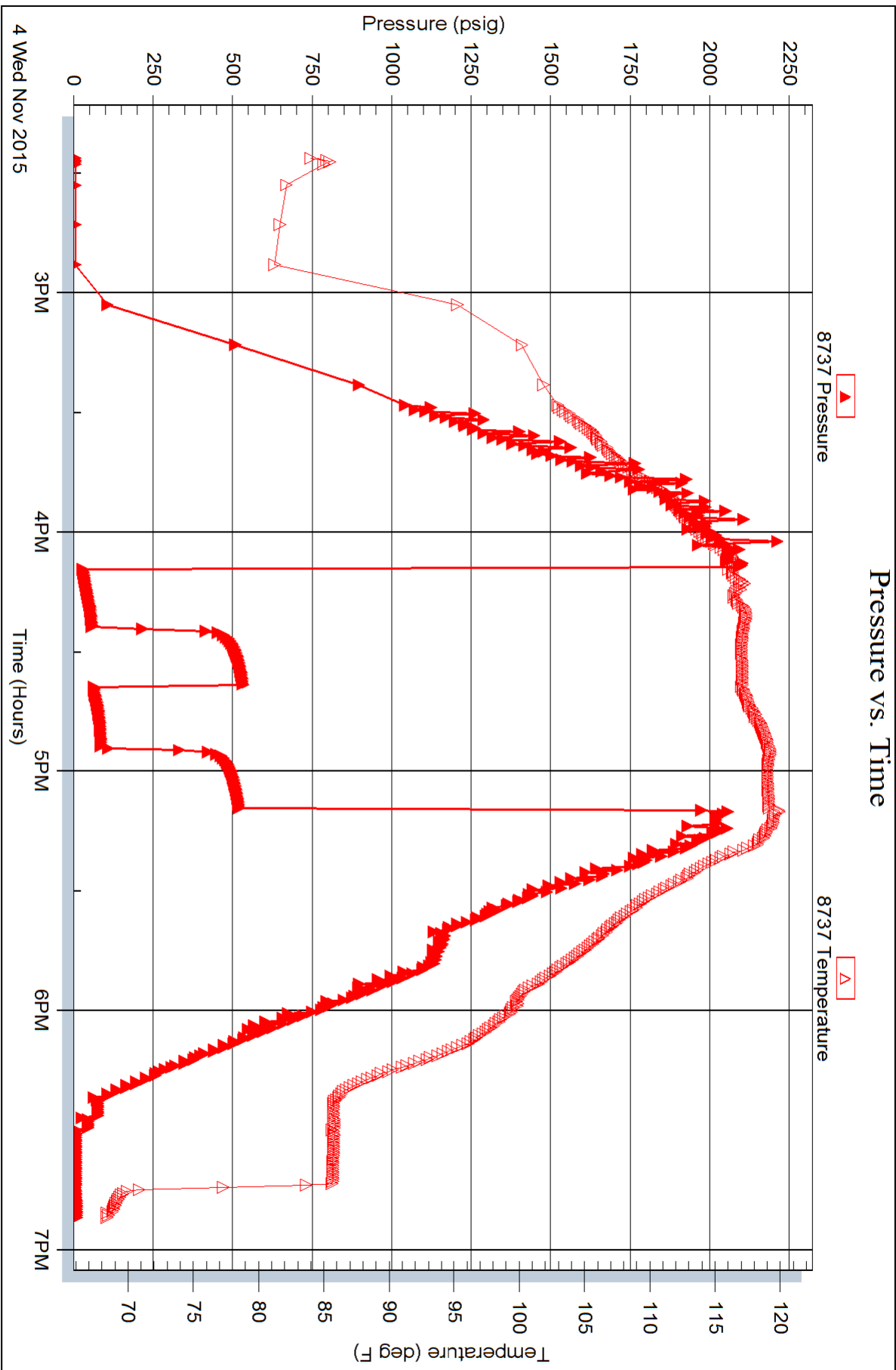
Serial #: 8737

Outside

Blue Goose Drilling Company, Inc

Borell H 1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64483

Printed: 2015.11.05 @ 07:32:27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Blue Goose Drilling Company, Inc

**4-18-27w Lane Co KS**

P.O. Box 1413  
Great Bend KS  
67530  
ATTN: Ken Wallace

**Borell H 1**

Job Ticket: 64484

**DST#: 2**

Test Start: 2015.11.05 @ 18:17:15

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:58:00  
 Time Test Ended: 23:26:30  
 Interval: **4347.00 ft (KB) To 4398.00 ft (KB) (TVD)**  
 Total Depth: 4398.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 2623.00 ft (KB)  
 2614.00 ft (CF)  
 KB to GR/CF: 9.00 ft

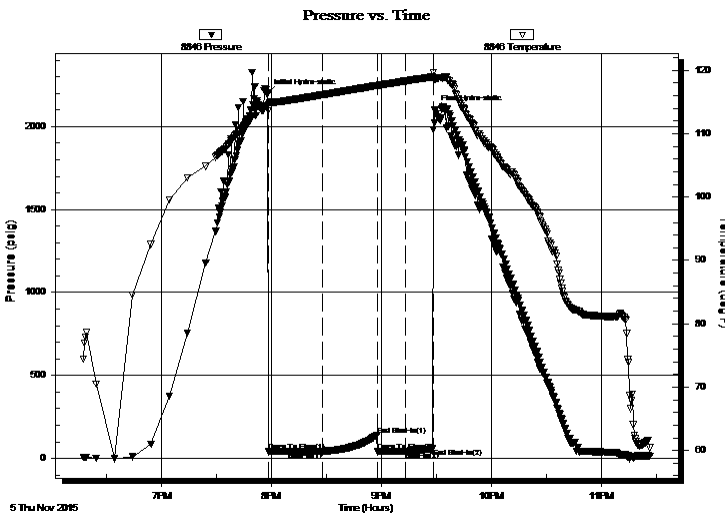
## Serial #: 8846

Inside

Press @ Run Depth: 43.52 psig @ 4350.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.11.05 End Date: 2015.11.05 Last Calib.: 2015.11.05  
 Start Time: 18:17:15 End Time: 23:26:30 Time On Btm: 2015.11.05 @ 19:57:45  
 Time Off Btm: 2015.11.05 @ 21:29:00

TEST COMMENT: IF: Built to 1/4" blow  
 IS: No return blow  
 FF: No blow  
 FS: No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.18	114.47	Initial Hydro-static
1	44.77	113.59	Open To Flow (1)
30	41.95	116.15	Shut-In(1)
60	141.49	117.61	End Shut-In(1)
60	42.03	117.57	Open To Flow (2)
76	43.52	118.32	Shut-In(2)
91	59.00	118.98	End Shut-In(2)
92	2103.45	118.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blue Goose Drilling Company, Inc

**4-18-27w Lane Co KS**

P.O. Box 1413  
Great Bend KS  
67530

**Borell H 1**

Job Ticket: 64484

**DST#: 2**

ATTN: Ken Wallace

Test Start: 2015.11.05 @ 18:17:15

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8846

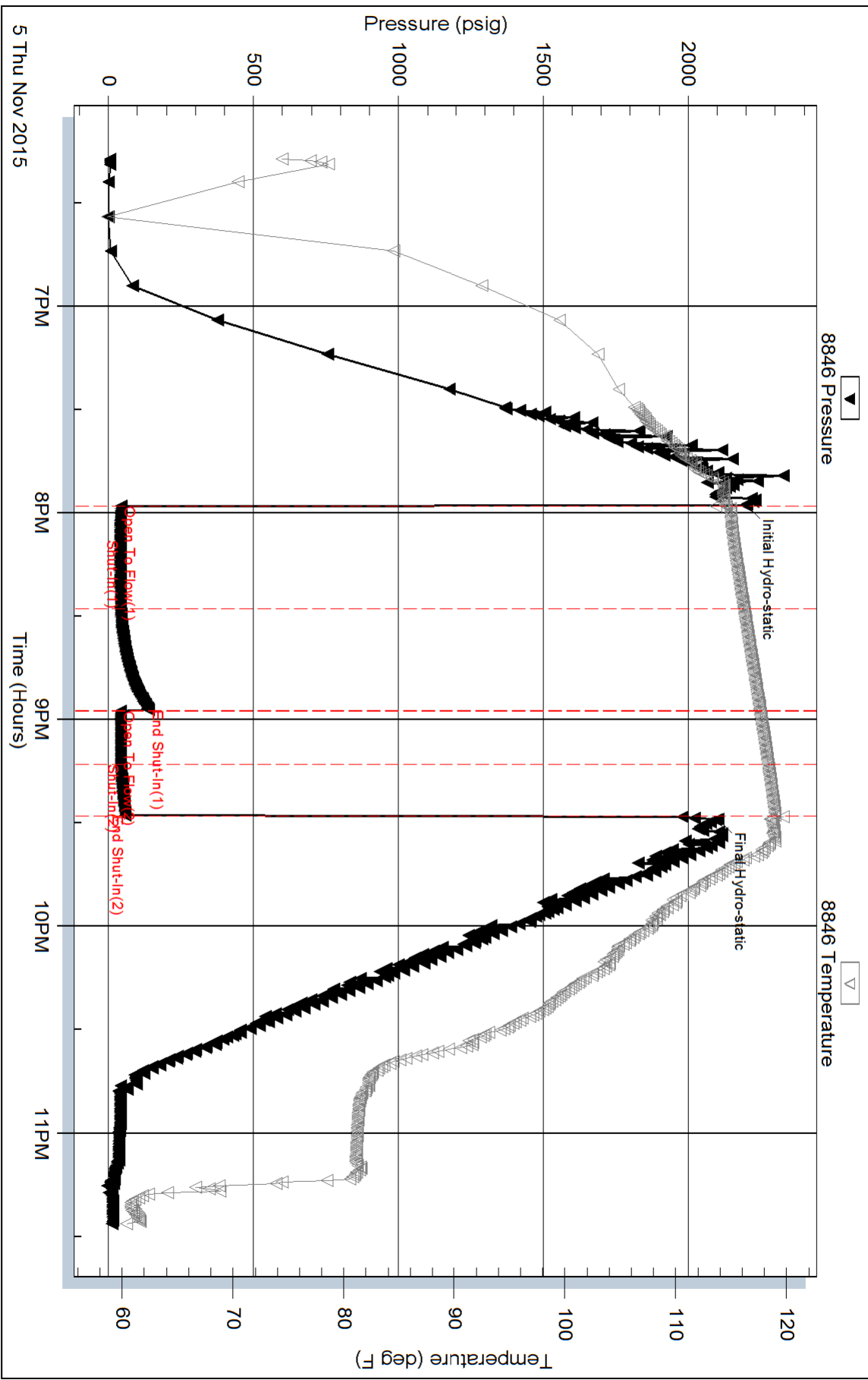
Inside

Blue Goose Drilling Company, Inc

Borell H 1

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64484

Printed: 2015.11.06 @ 03:06:45



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Blue Goose Drilling Company, Inc

4-18-27w Lane Co KS

P.O. Box 1413  
Great Bend KS  
67530  
ATTN: Ken Wallace

**Borell H 1**

Job Ticket: 64485

**DST#: 3**

Test Start: 2015.11.06 @ 15:49:15

## GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:17:45

Time Test Ended: 20:06:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

**Interval: 4485.00 ft (KB) To 4509.00 ft (KB) (TVD)**

Reference Elevations: 2623.00 ft (KB)

Total Depth: 4509.00 ft (KB) (TVD)

2614.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8737 Outside**

Press @ Run Depth: 25.15 psig @ 4504.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.06

End Date:

2015.11.06

Last Calib.:

2015.11.06

Start Time: 15:49:15

End Time:

20:06:30

Time On Btm:

2015.11.06 @ 17:17:30

Time Off Btm:

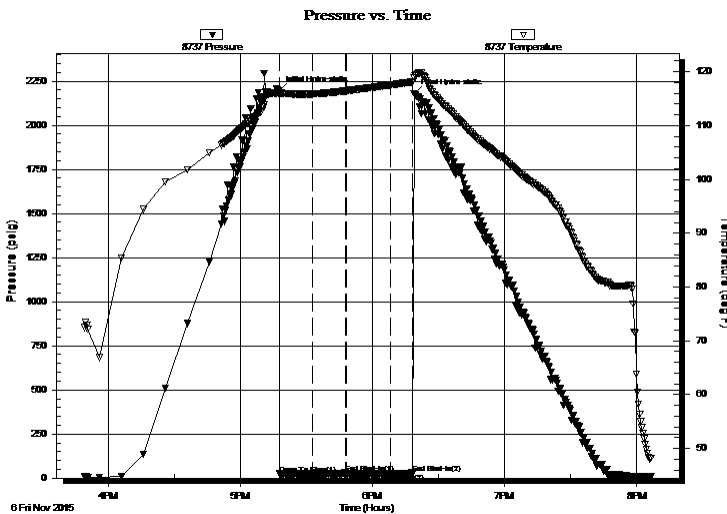
2015.11.06 @ 18:18:45

**TEST COMMENT:** IF: Built to week surface blow and died in 12 min.

IS: No return blow

FF: No blow

FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.54	116.44	Initial Hydro-static
1	23.47	115.63	Open To Flow (1)
16	22.18	115.87	Shut-In(1)
31	29.37	116.44	End Shut-In(1)
31	22.61	116.46	Open To Flow (2)
51	25.15	117.55	Shut-In(2)
61	29.29	118.13	End Shut-In(2)
62	2178.51	118.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blue Goose Drilling Company, Inc

**4-18-27w Lane Co KS**

P.O. Box 1413  
Great Bend KS  
67530

**Borell H 1**

Job Ticket: 64485

**DST#: 3**

ATTN: Ken Wallace

Test Start: 2015.11.06 @ 15:49:15

## 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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

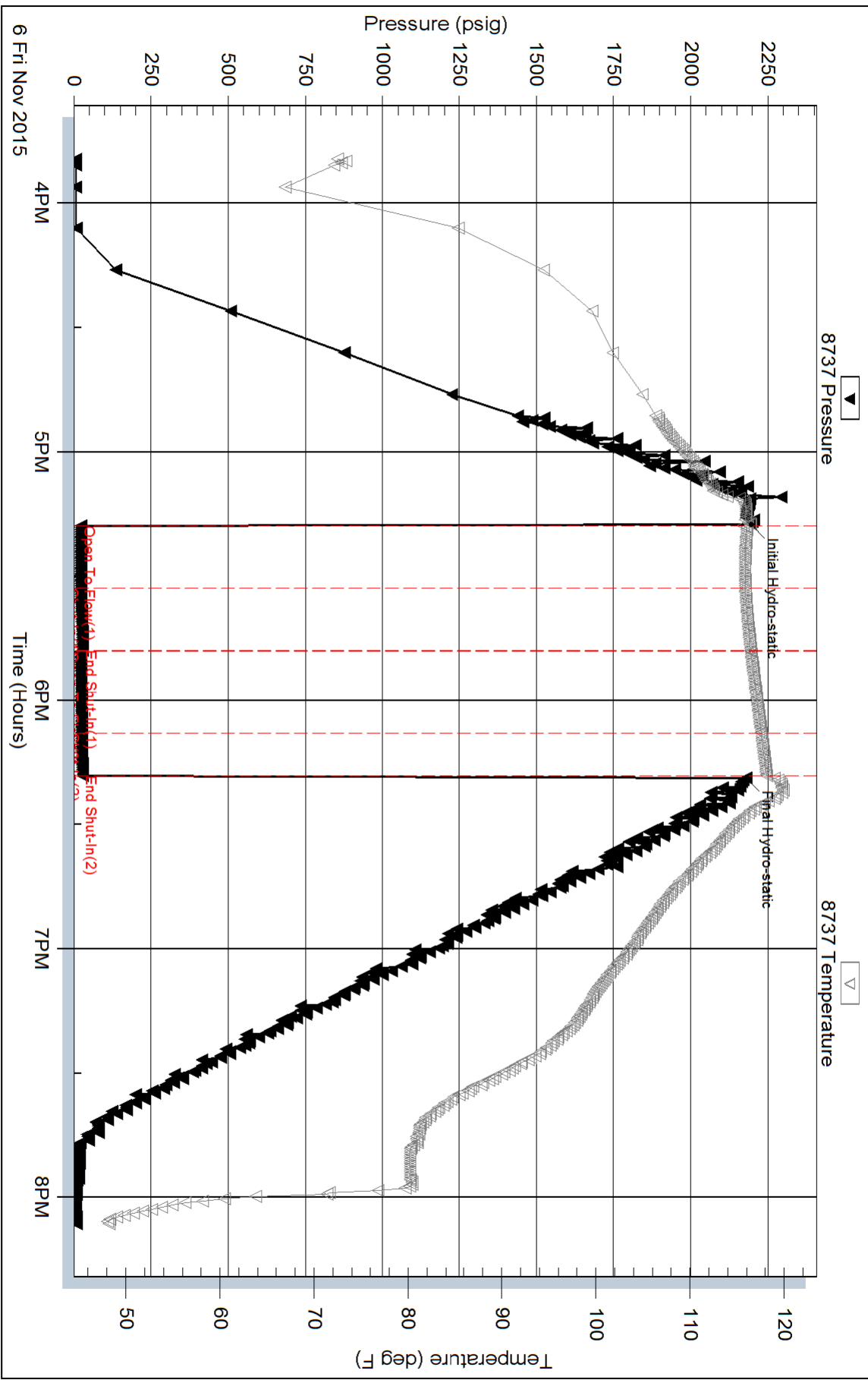
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





# RADIATION GUARD LOG

Company BLUE GOOSE DRILLING CO., INC.  
 Well BORELL "H" NO. 1  
 Field WILDCAT  
 County LANE  
 State KANSAS

Company BLUE GOOSE DRILLING CO., INC.  
 Well BORELL "H" NO. 1  
 Field WILDCAT  
 County LANE State KANSAS

Location: API #: 15-101-22,573-00-00  
 1,825' FNL & 1,914' FWL  
 SEC 4 TWP 18S RGE 27W  
 Permanent Datum GROUND LEVEL Elevation 2612'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services NONE  
 Elevation K.B. 2621'  
 D.F. N/A  
 G.L. 2612'

Date	11/7/2015
Run Number	ONE
Depth Driller	4580'
Depth Logger	4576'
Bottom Logged Interval	4575'
Top Log Interval	250'
Casing Driller	8.625" @ 265'
Casing Logger	260'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	3700
Density / Viscosity	9.3 51
pH / Fluid Loss	9.5 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	.92 @ 62
Rmt @ Meas. Temp	.69 @ 62
Rmc @ Meas. Temp	1.24 @ 62
Source of Rmf / Rmc	Charts
Rm @ BHT	.47 @ 122
Operating Rig Time	2 HOURS
Max Rec. Temp. F	122
Equipment Number	108
Location	Hays
Recorded By	J. LONG
Witnessed By	KEN WALLACE

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

### Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
 DIGHTON, 9 EAST TO TURKEY RED ROAD, 3 1/2 NORTH, 1 WEST,  
 1/2 SOUTH, EAST AND SOUTH INTO

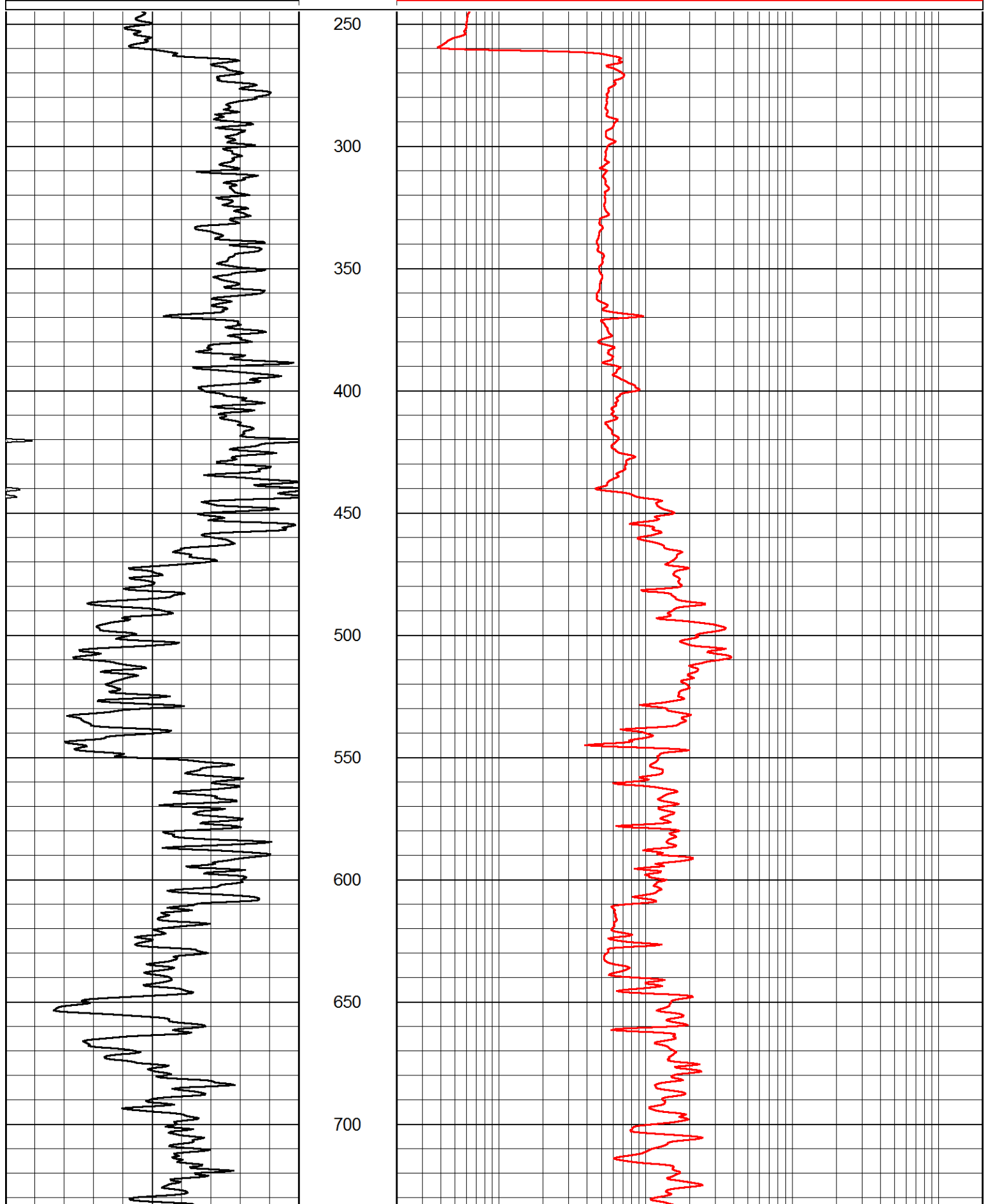
Log Measured From: KELLY BUSHING      9 Ft. Above Permanent Datum

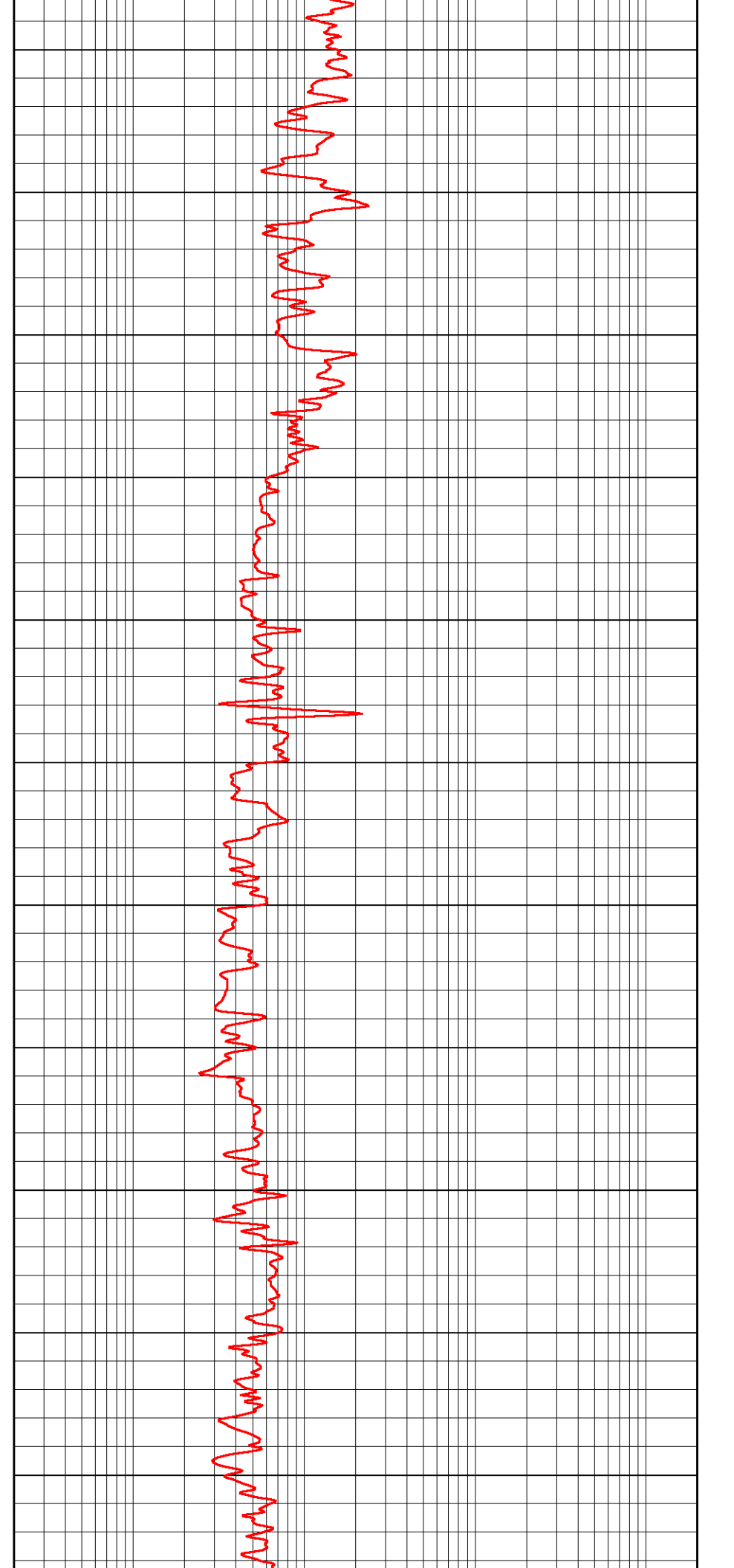
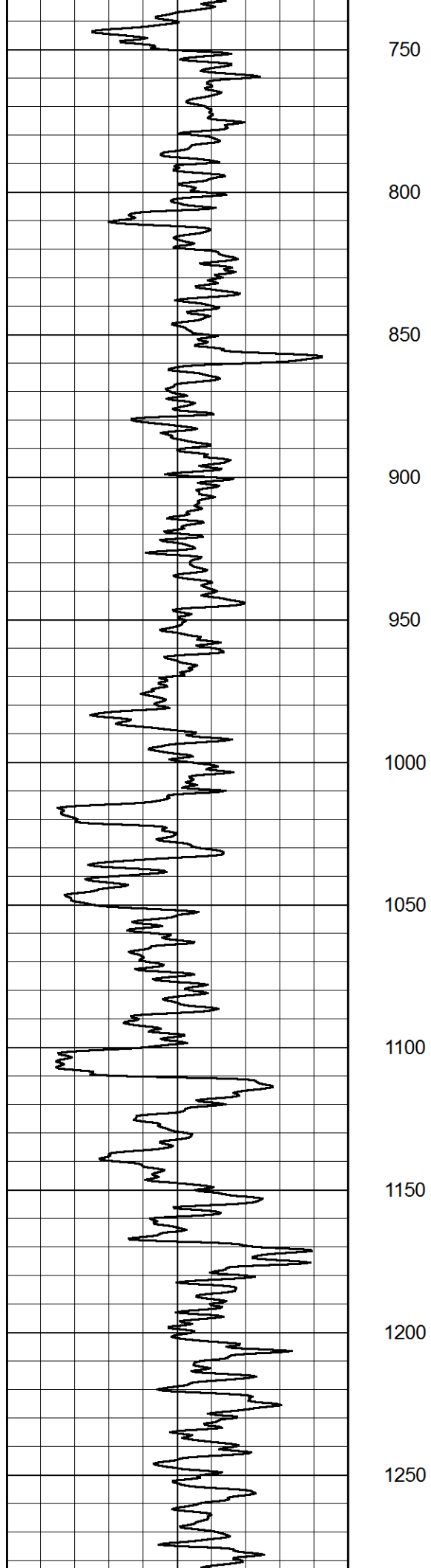
THANK YOU FOR USING PIONEER ENERGY SERVICES  
[www.pioneerenergy.com](http://www.pioneerenergy.com)      785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: KEN WALLACE
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

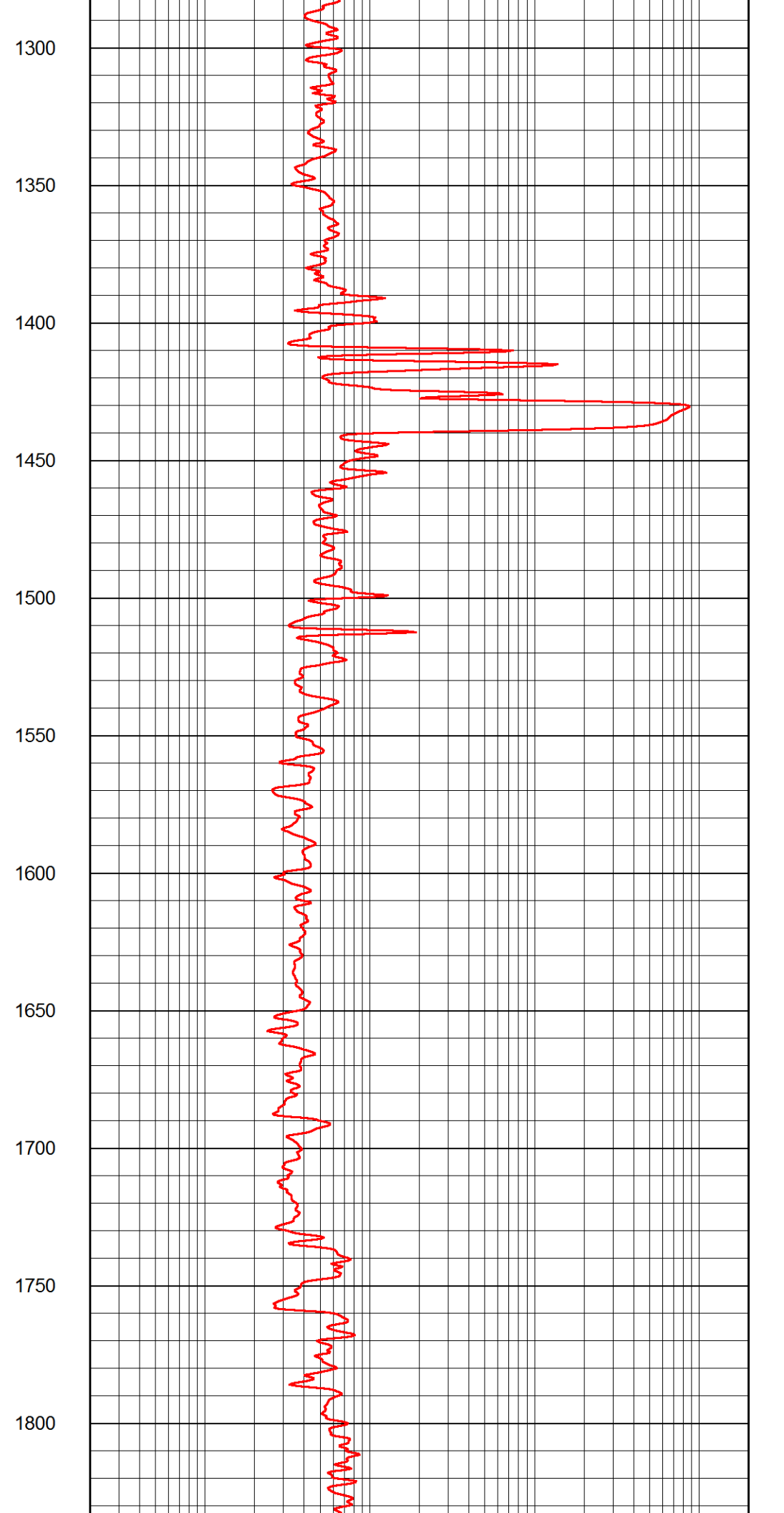
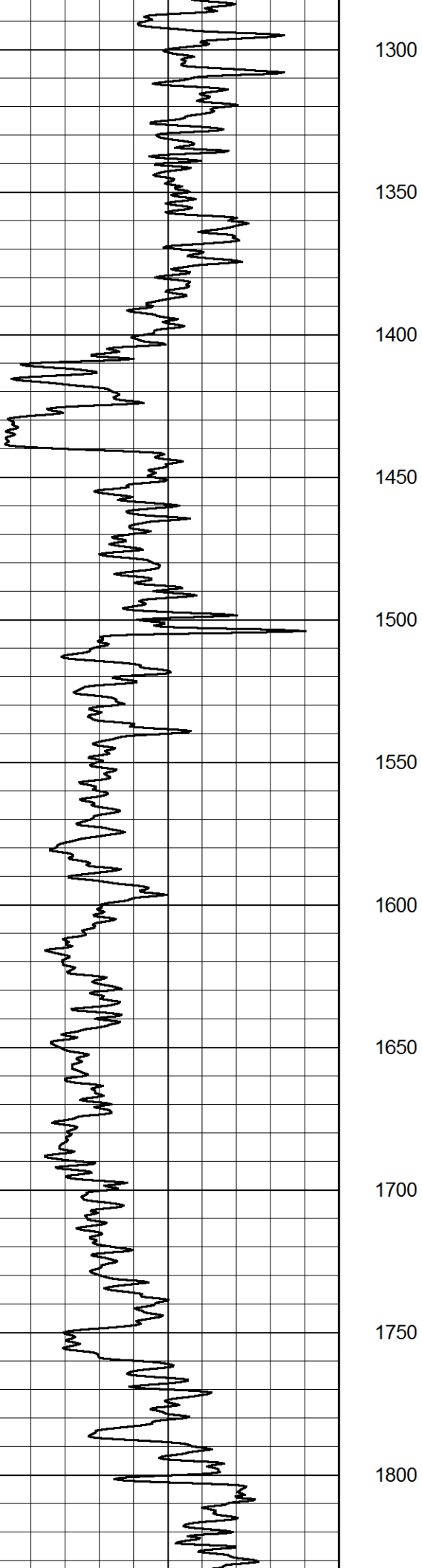
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Dataset Creation Sat Nov 07 10:58:49 2015  
Charted by Depth in Feet scaled 1:600

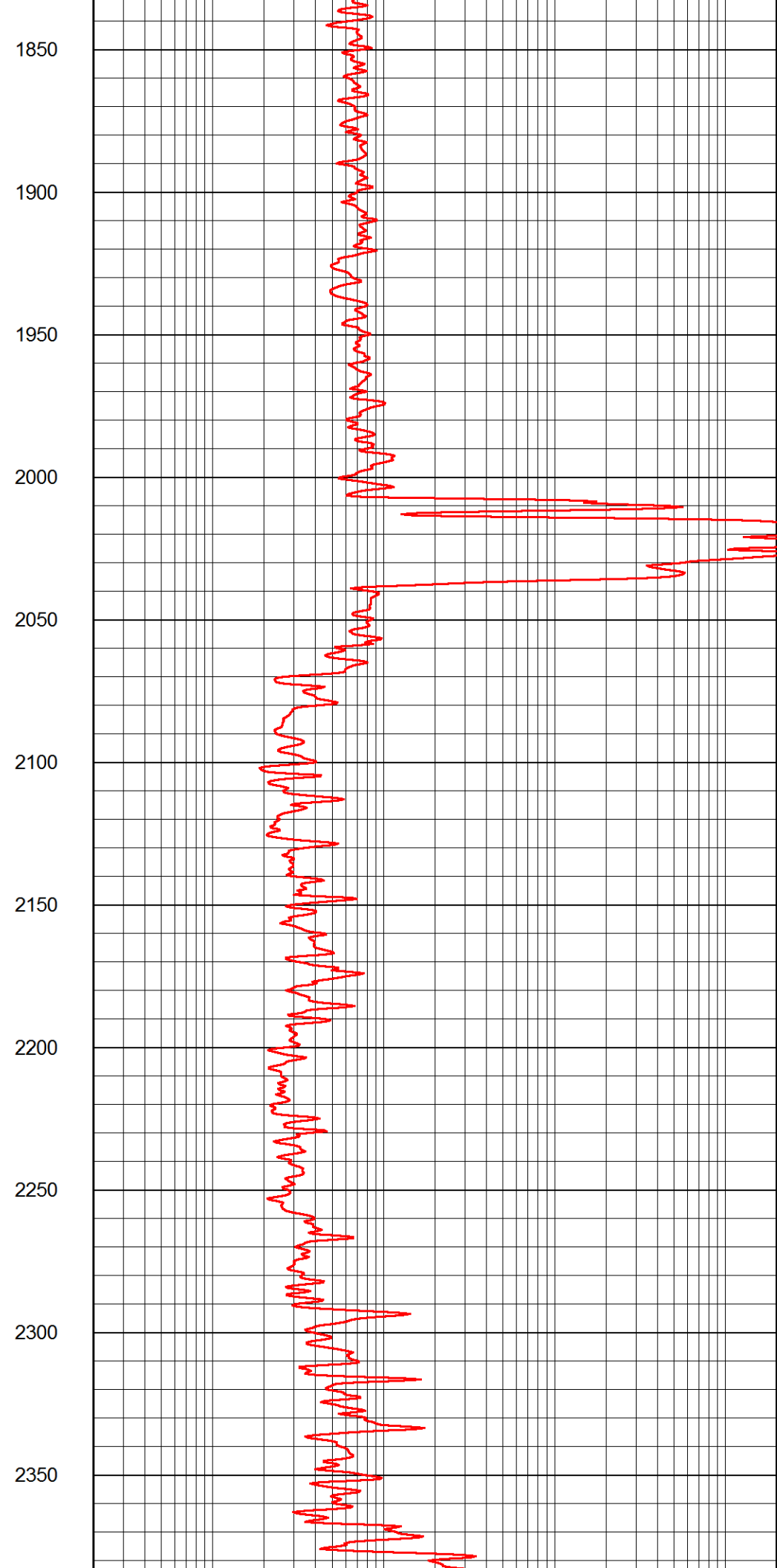
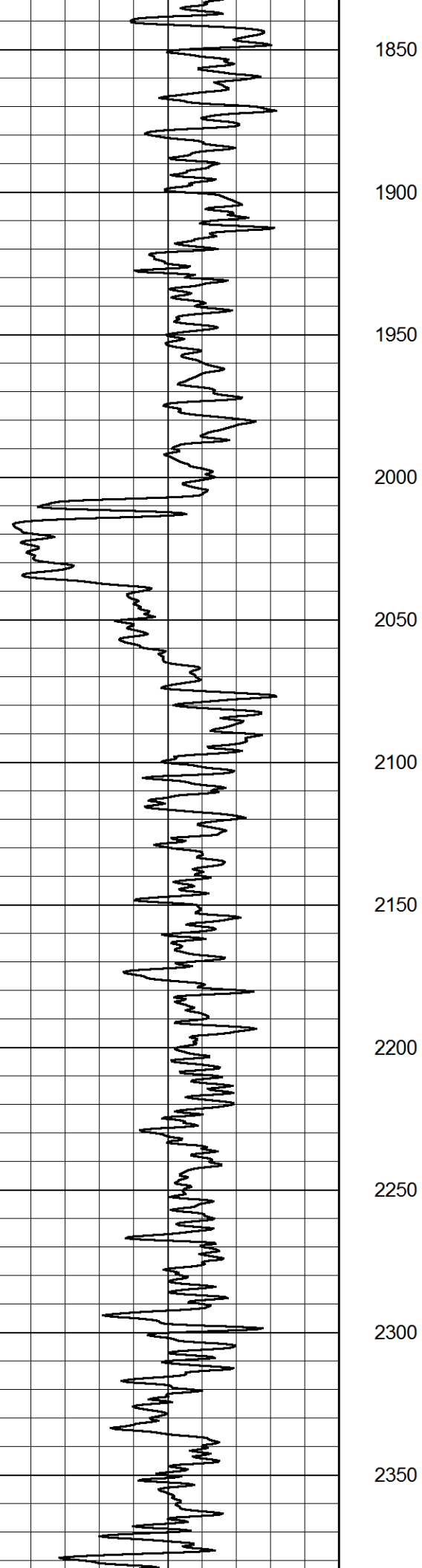
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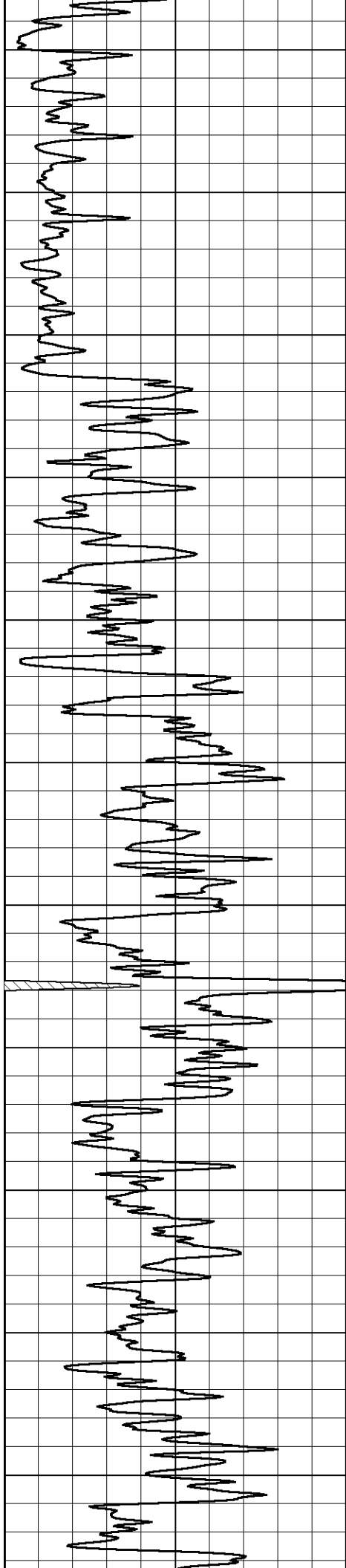












2400

2450

2500

2550

2600

2650

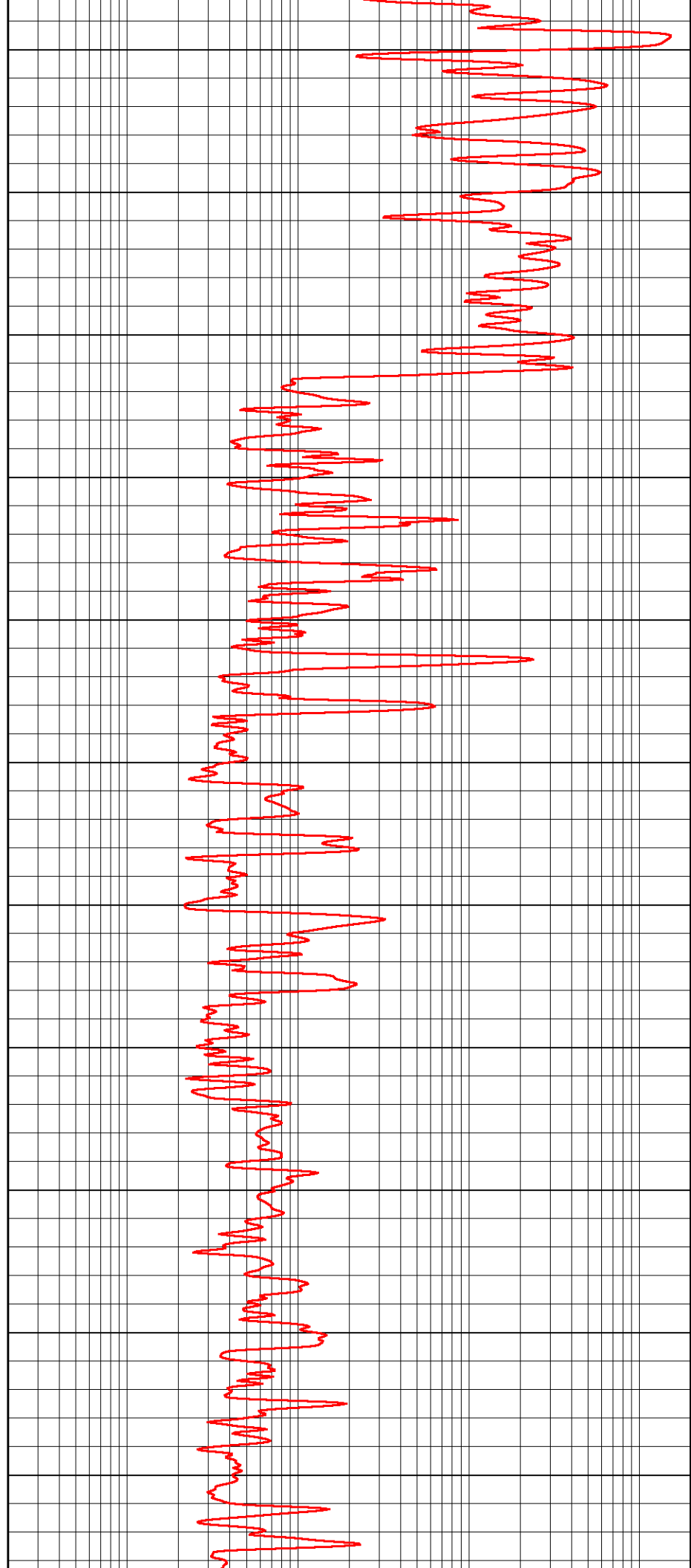
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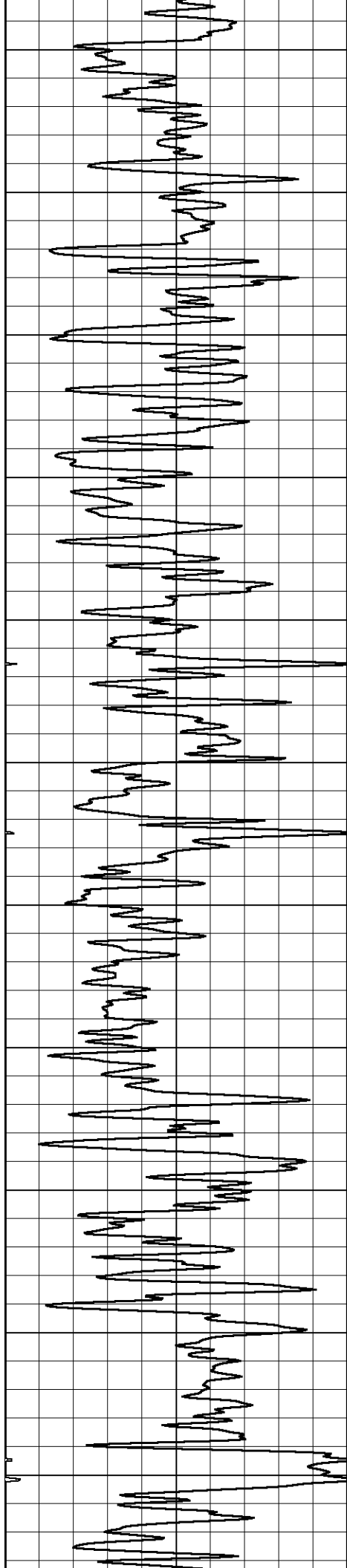
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2850

2900





2950

3000

3050

3100

3150

3200

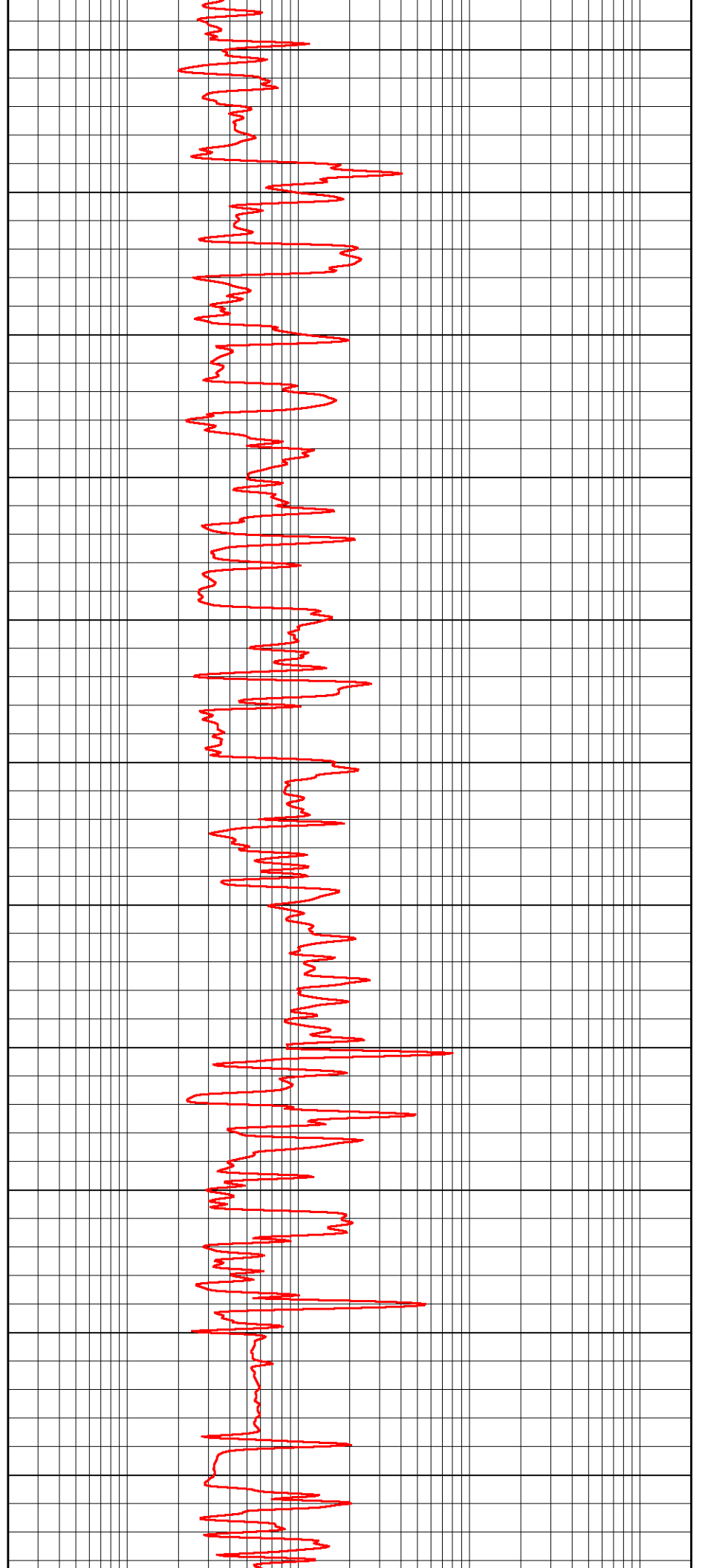
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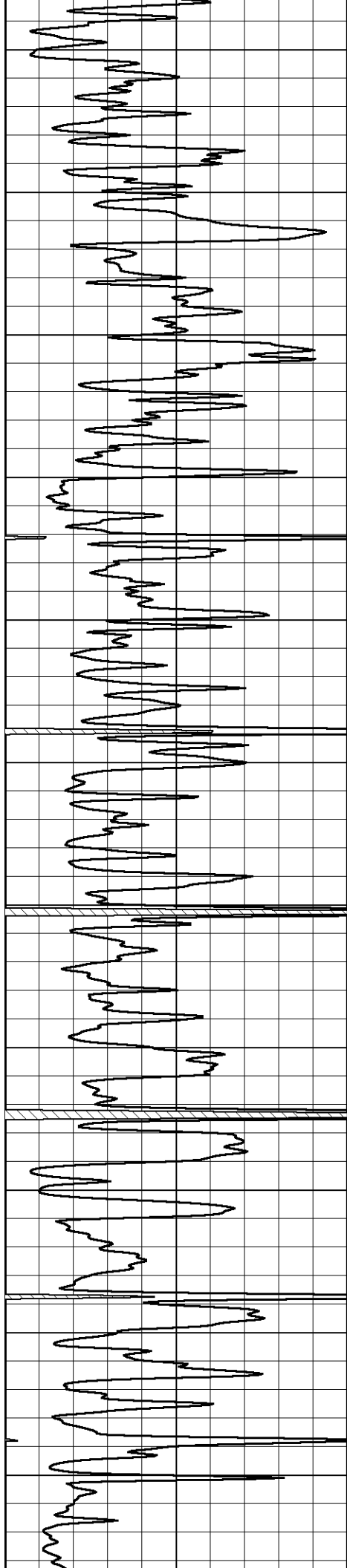
3300

3350

3400

3450





3500

3550

3600

3650

3700

3750

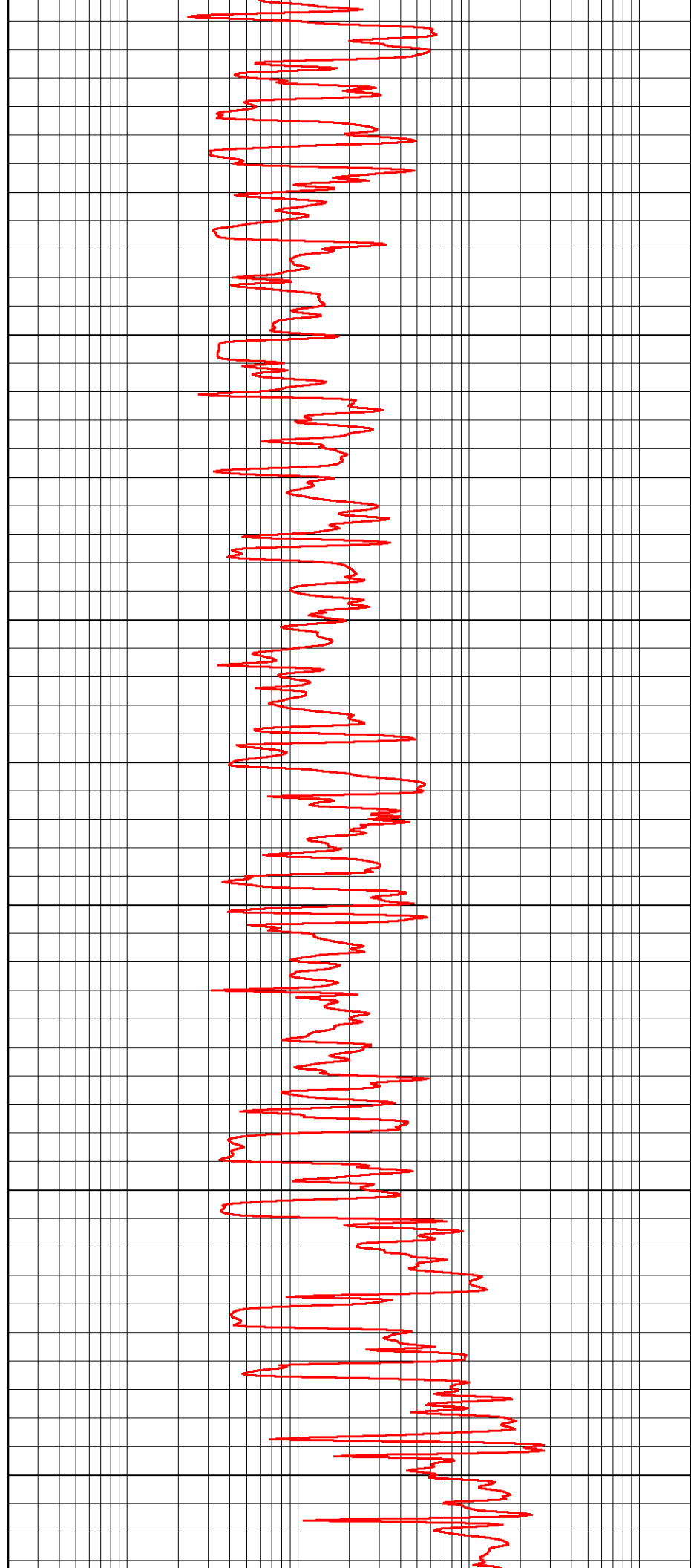
3800

3850

3900

3950

4000



3500

3550

3600

3650

3700

3750

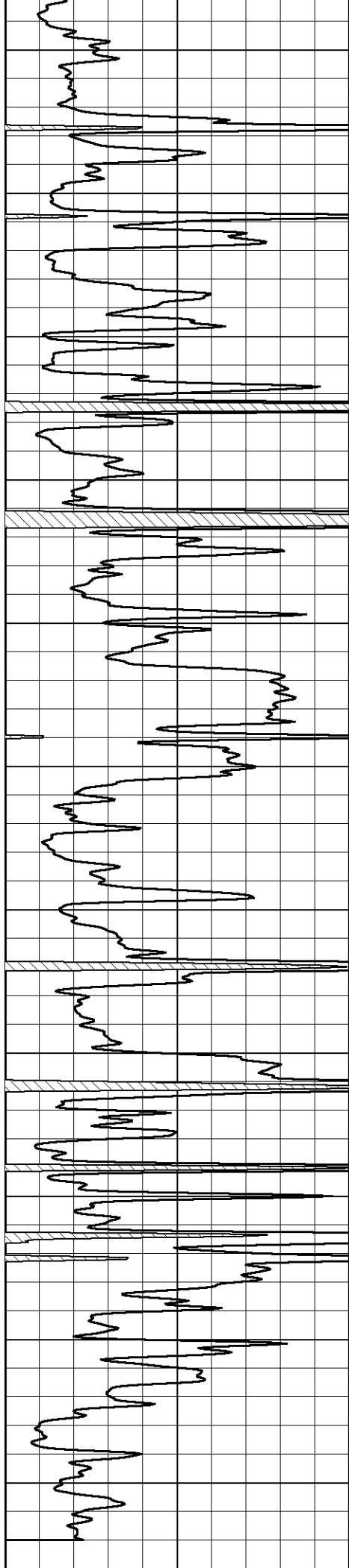
3800

3850

3900

3950

4000



4050

4100

4150

4200

4250

4300

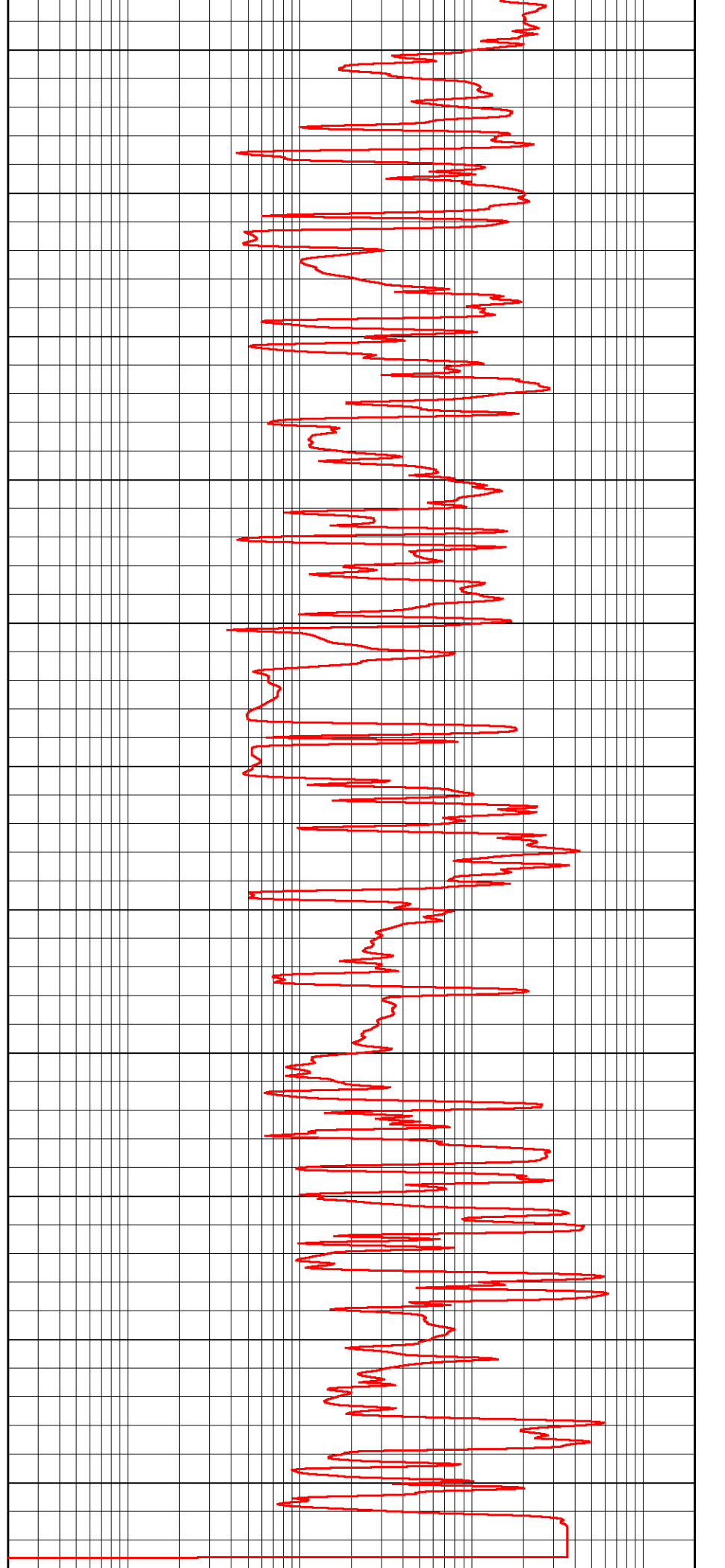
4350

4400

4450

4500

4550



0 Gamma Ray (GAPI) 150

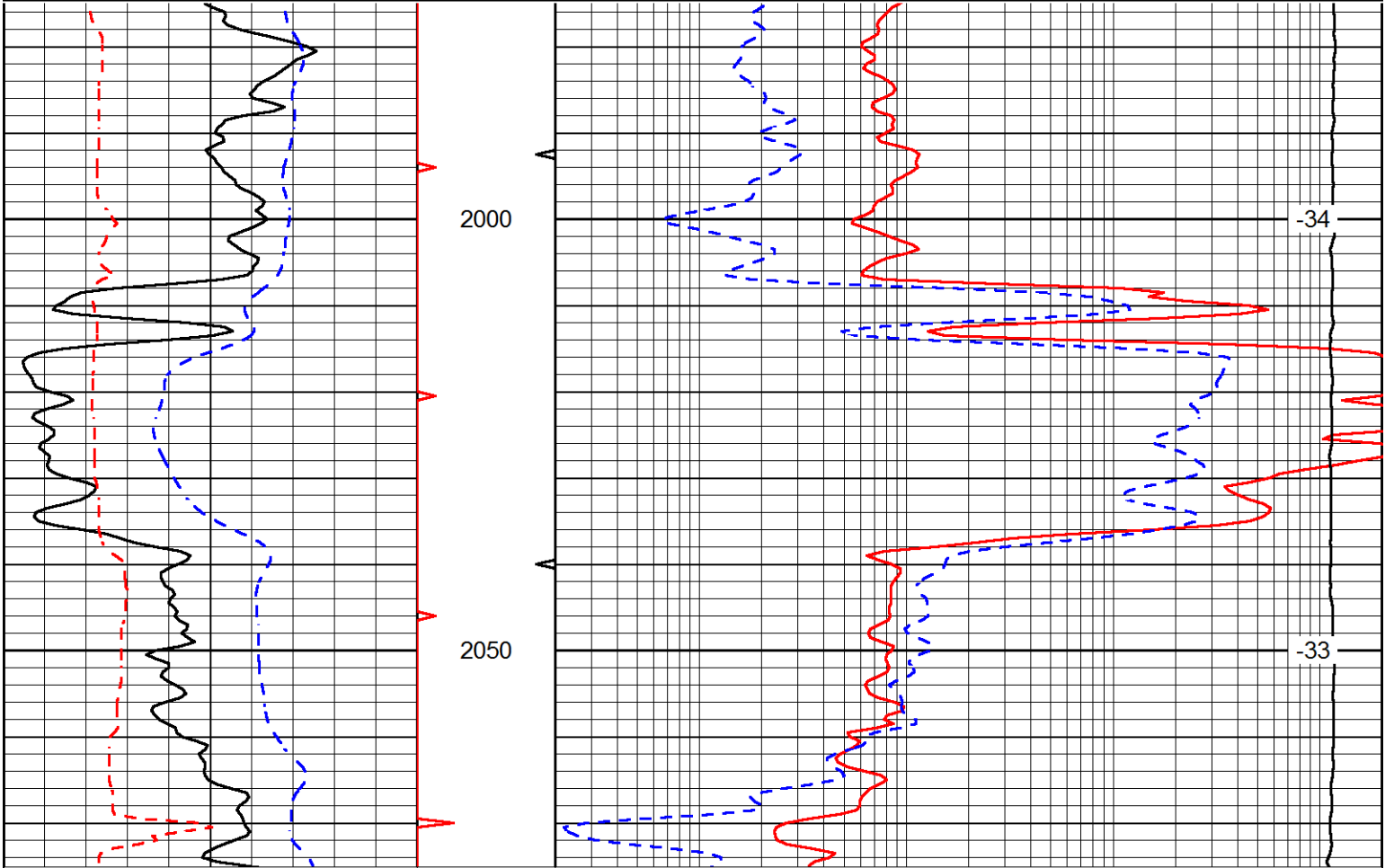
0.2 LGRD (Ohm-m) 2000

Database File bluegoose\_borell\_h\_1hd.db  
Dataset Pathname RAG/bluerag  
Presentation Format rag  
Dataset Creation Sat Nov 07 10:58:49 2015  
Charted by Depth in Feet scaled 1:240

6 Caliper (in) 16  
-200 sp (mV) 0

560 SWNC (NAPI) 2160  
15000 Line Tension (lb) 0

LSPD  
(ft/min)



6 Caliper (in) 16  
-200 sp (mV) 0

560 SWNC (NAPI) 2160  
15000 Line Tension (lb) 0

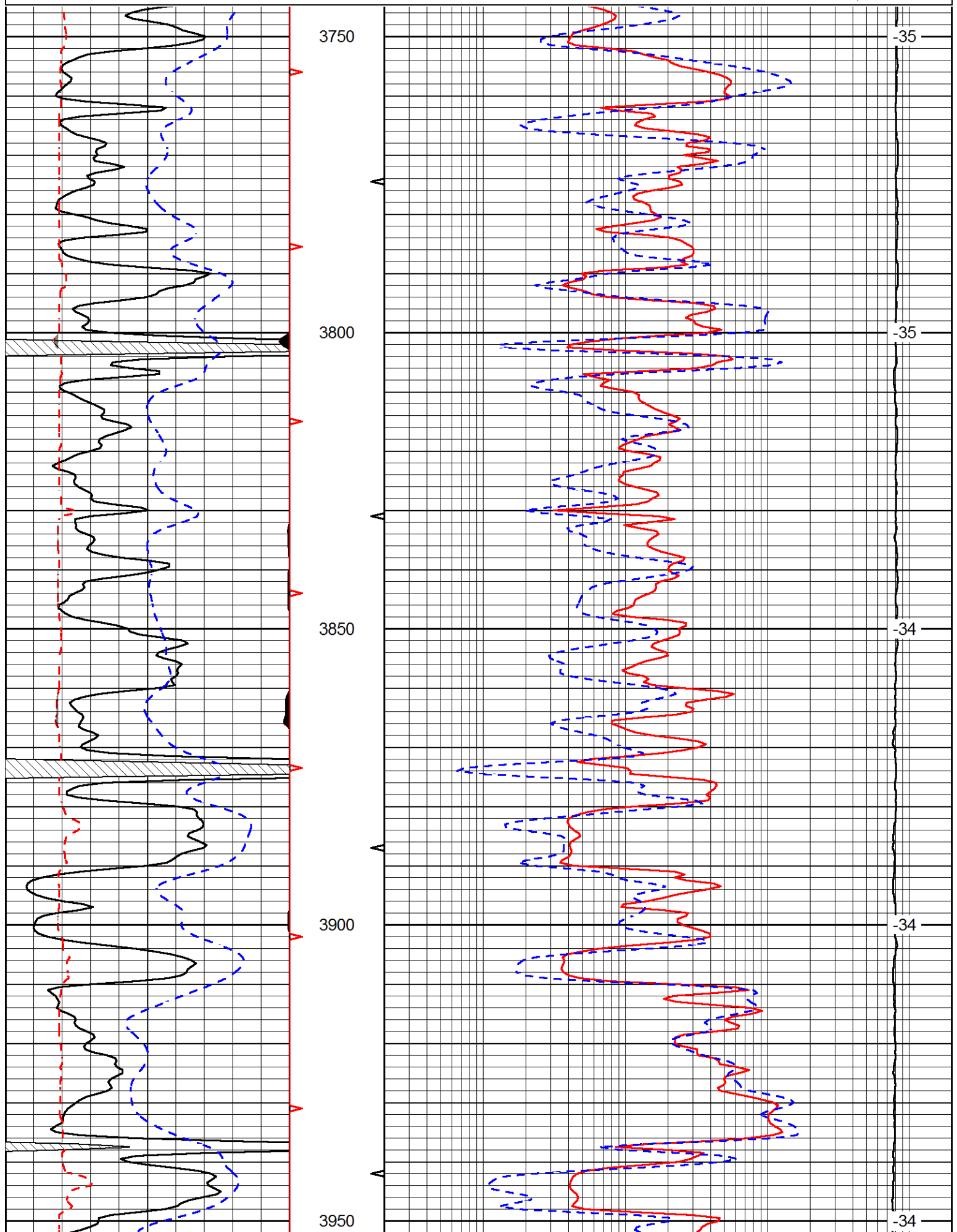
LSPD  
(ft/min)

Database File bluegoose\_borell\_h\_1hd.db  
Dataset Pathname RAG/bluerag  
Presentation Format rag  
Dataset Creation Sat Nov 07 10:58:49 2015  
Charted by Depth in Feet scaled 1:240

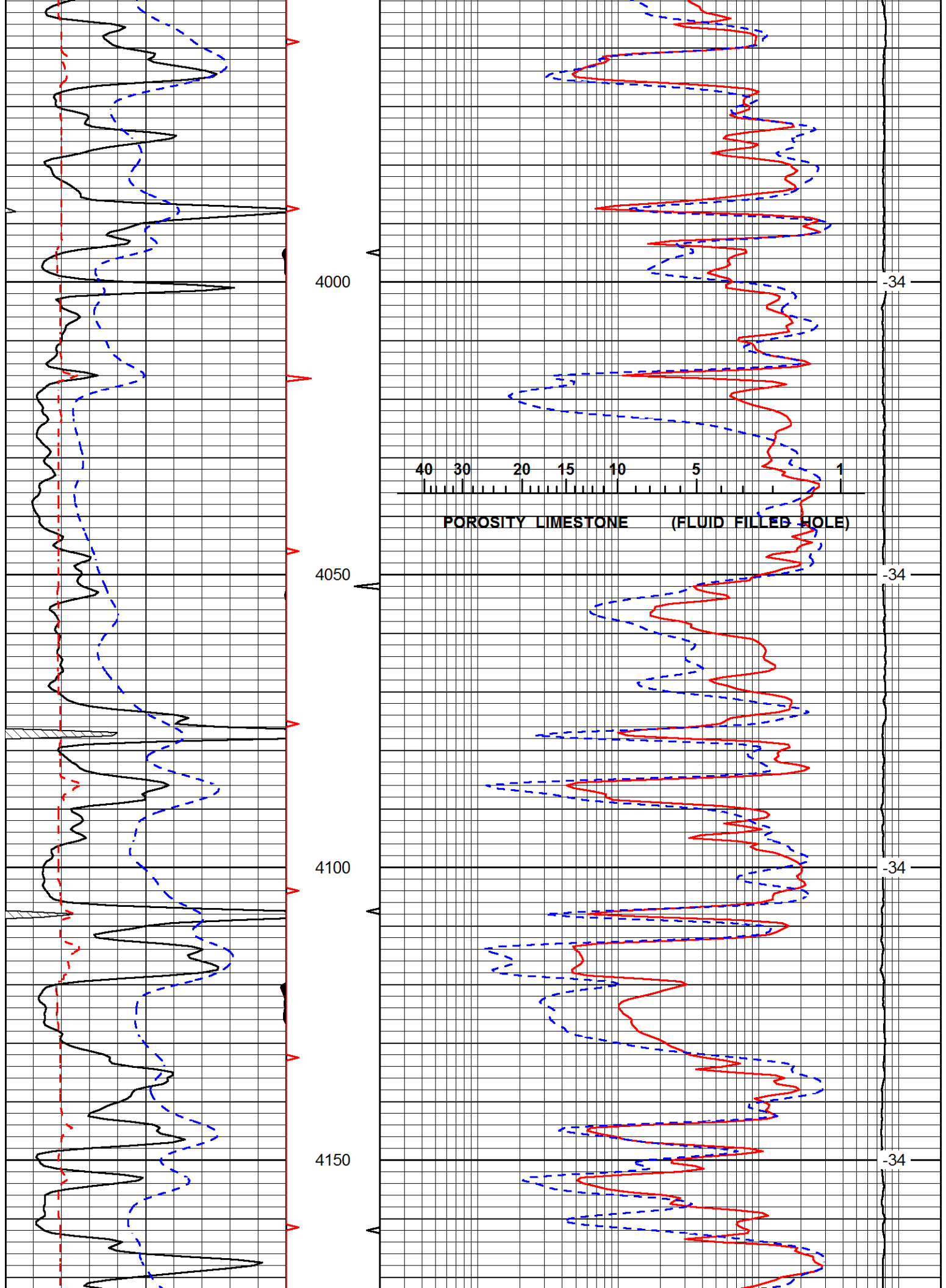
6 Caliper (in) 16  
-200 sp (mV) 0

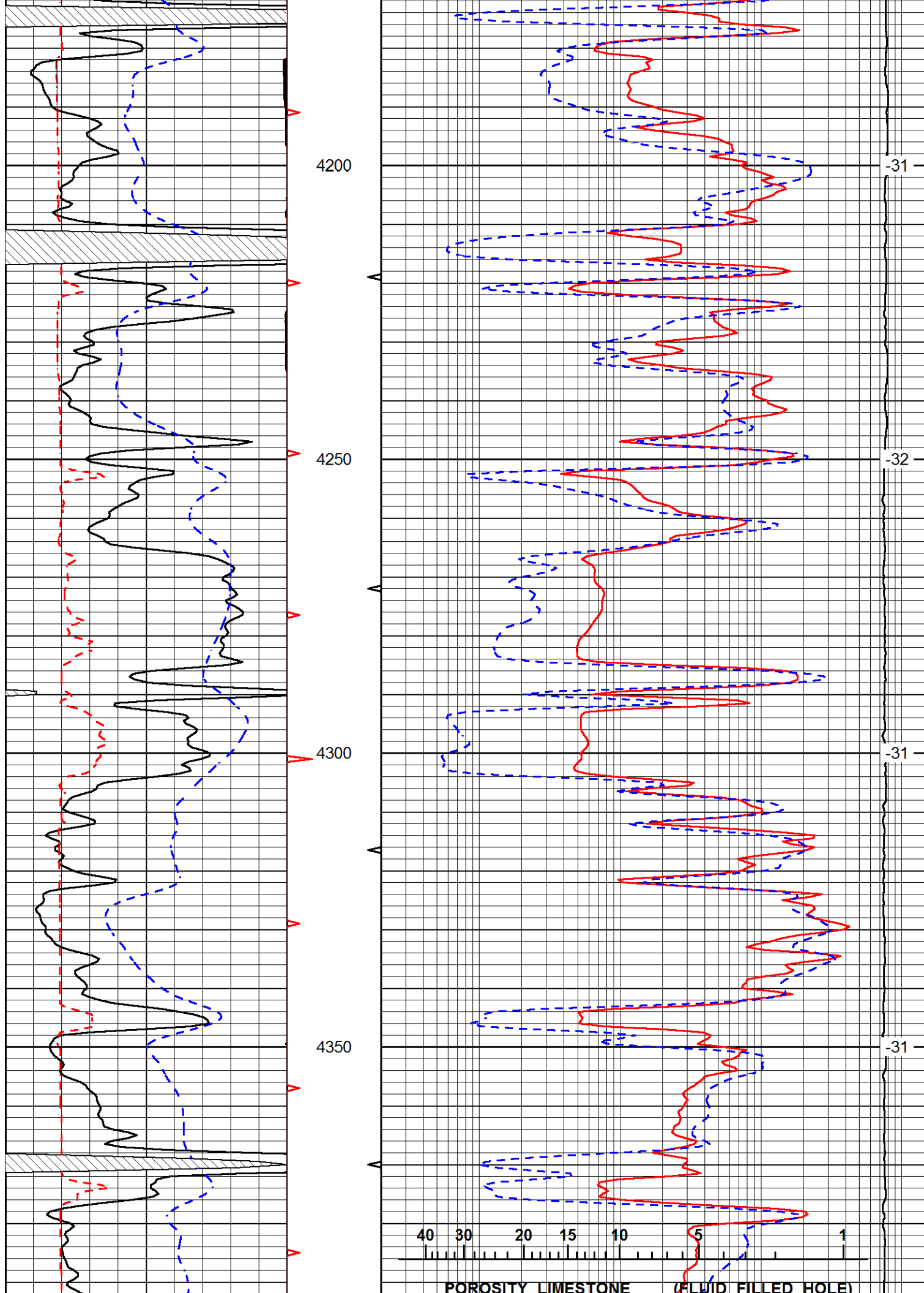
560 SWNC (NAPI) 2160  
15000 Line Tension (lb) 0

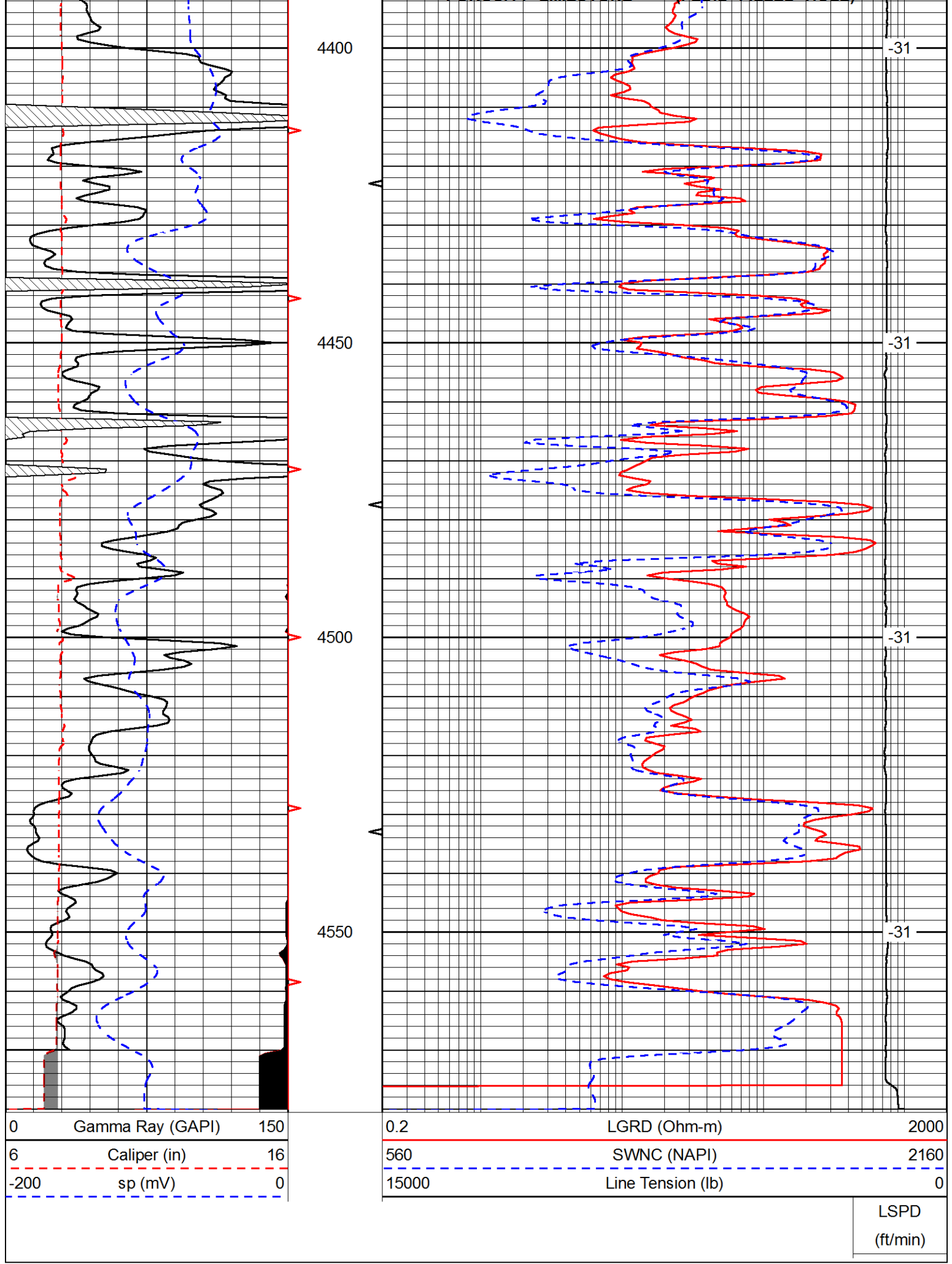
LSPD  
(ft/min)











**GEOLOGIST'S REPORT**  
DRILLING TIME AND SAMPLE LOG

COMPANY: Blue Goose Drilling Co., Inc.	ELEVATIONS: KB 2621'
LEASE: Borell #1	FIELD: W/C
LOCATION: 1825' F.M. #1914 20W	DF: 26.12'
SEC: 4 T18P 18 RGE 27 W	MEASUREMENTS ARE ALL FROM KB
COUNTY: Lane STATE KS	CONTRACT: H.D. Drilling, LLC
SPUD: 10-29-15 CDRP 11-7-15	SURFACE ELEVATION: 2625'
RD: 4580' LTD: 4576'	PRODUCTION: NONE
MUD UP: 3750' TYPE MUD: Chem	ELECTRICAL SERVICES: AAG

SAMPLES SAVED FROM 3750 TO RTD  
DRILLING TIME KEPT FROM 3750 TO RTD  
SAMPLES EXAMINED FROM 3750 TO RTD  
GEOLOGICAL SUPERVISION FROM 3750 TO RTD  
GEOLOGIST ON WELL: Ken Wallace

FORMATION TOPS: 2088 (+413) 2613 (1602) 2676 (+528)  
Lithology: Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Ool. Lime, Chert, Dolomite

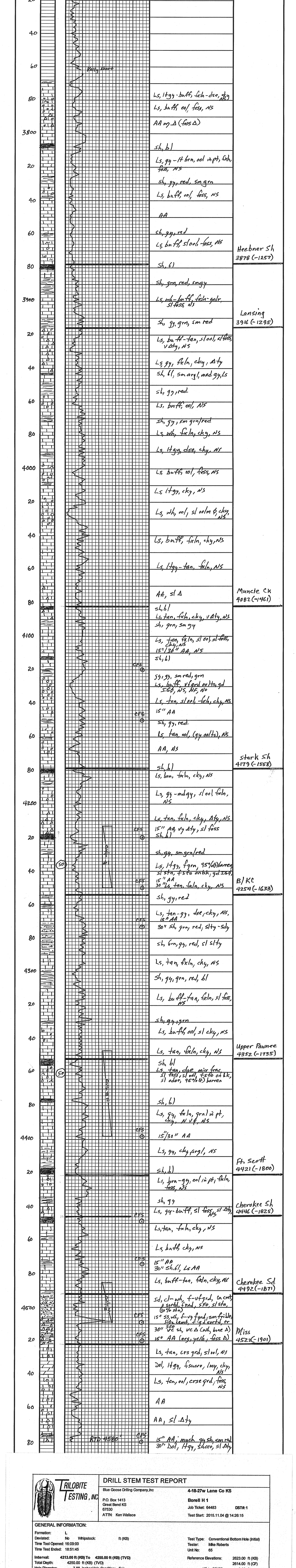
REMARKS: Had negative DST's - Plugged & Ab'd  
Ken Wallace

10-29-15 ME/RU Spud, Set 8 5/8" @ 265' up 175' SW.  
10-30-15 Drilling @ 825'  
10-31-15 Drilling @ 2225'  
11-1-15 Drilling @ 2835' Lost Cir @ 2728'  
11-2-15 Drilling @ 3415'  
11-3-15 Drilling @ 4239' DST #1 - Log  
11-4-15 Drilling @ 4328' DST #2 - P&W  
11-5-15 CFS @ 4949' (F.L. Sec B)  
11-7-15 To 4580' - Logging, DST #3 - Ck sd

**LEGEND**

[Symbol]	Anhydrite	[Symbol]	Salt	[Symbol]	Sandstone	[Symbol]	Shale	[Symbol]	Carb sh	[Symbol]	Limestone	[Symbol]	Ool. Lime	[Symbol]	Chert	[Symbol]	Dolomite
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**SCALE** " = 100'



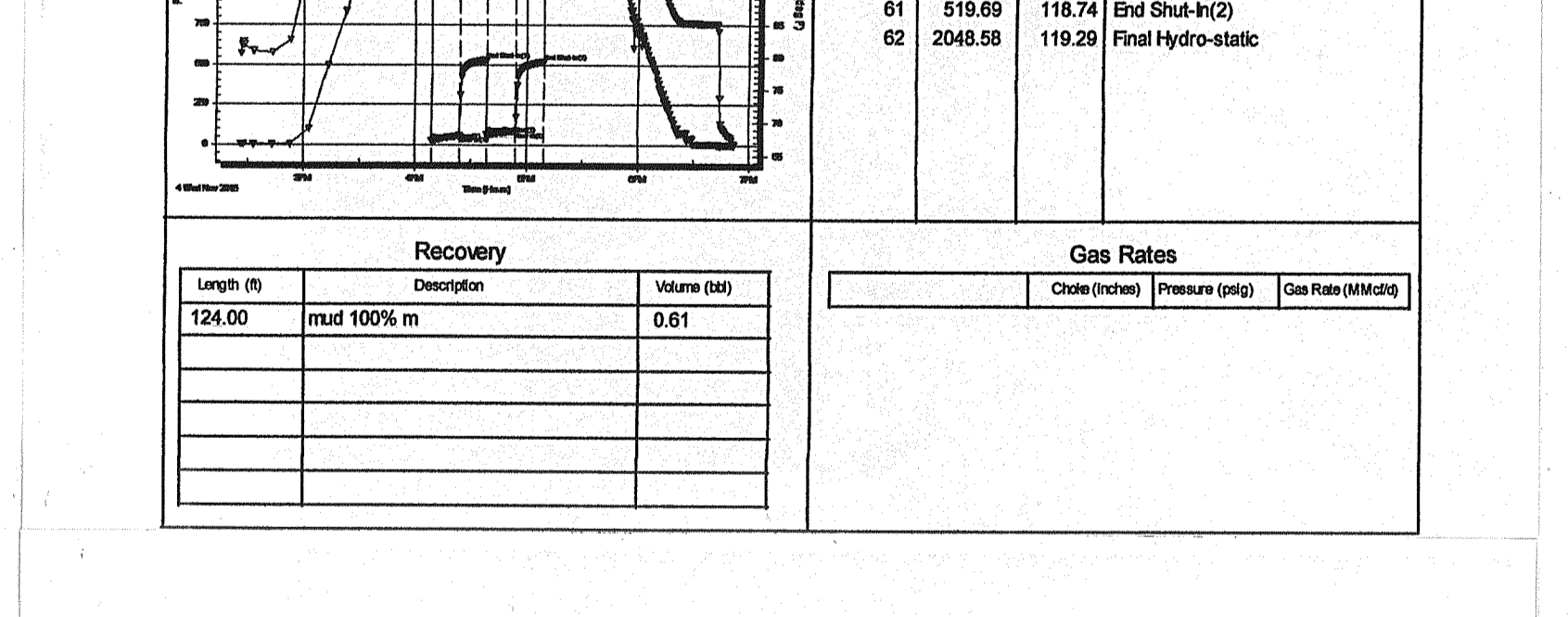
**TRILOBITE TESTING, INC.** DRILL STEM TEST REPORT  
Blue Goose Drilling Company, Inc. 4-18-27w Lane Co KS  
P.O. Box 1413 Great Bend KS 67530 Borell H 1  
ATTN: Ken Wallace Job Ticket: 64483 DST#:1  
Test Start: 2015.11.04 @ 14:28:15

**GENERAL INFORMATION:**  
Formation: L Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:09:00 Test Type: Conventional Bottom Hole (Initial)  
Time Test Ended: 18:51:45 Tester: Mike Roberts  
Unit No: 65

Interval: 4213.00 ft (KB) To 4250.00 ft (KB) (TVD) Reference Elevations: 2623.00 ft (KB)  
Total Depth: 4250.00 ft (KB) (TVD) 2614.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRVCF: 9.00 ft

Serial #: 8846 Inside 43.52 psig @ 4245.00 ft (KB) Capacity: 8000.00 psig  
Press@RunDepth: 84.05 psig @ 4245.00 ft (KB) Last Call: 2015.11.04  
Start Date: 2015.11.04 End Date: 2015.11.04 @ 16:08:45  
Start Time: 14:28:15 End Time: 2015.11.04 @ 16:08:45  
Time On Blnt: 2015.11.04 @ 17:10:00  
Time Off Blnt: 2015.11.04 @ 17:10:00

**TEST COMMENT:** F:Weak Surface blow died in 3 minutes  
IS:No return blow  
FF:No blow  
FS:No return blow



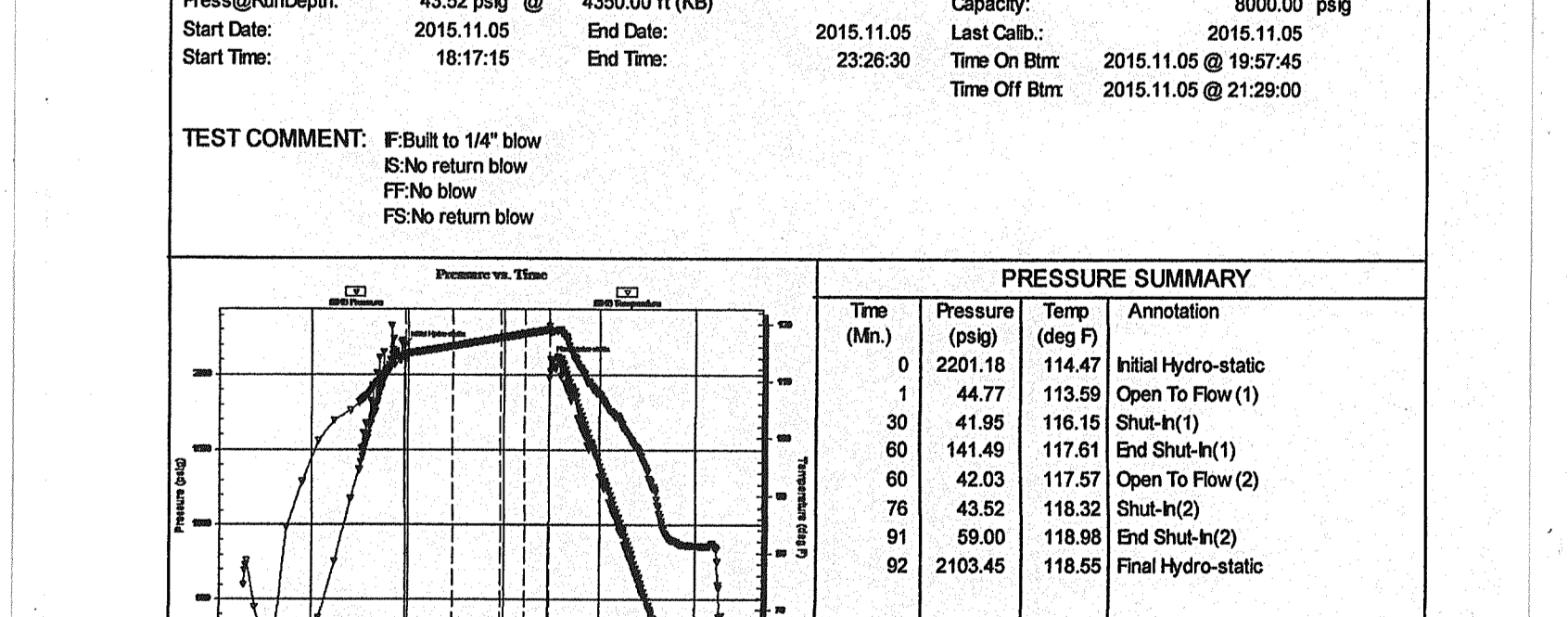
**TRILOBITE TESTING, INC.** DRILL STEM TEST REPORT  
Blue Goose Drilling Company, Inc. 4-18-27w Lane Co KS  
P.O. Box 1413 Great Bend KS 67530 Borell H 1  
ATTN: Ken Wallace Job Ticket: 64484 DST#:2  
Test Start: 2015.11.05 @ 18:17:15

**GENERAL INFORMATION:**  
Formation: Pawnee Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:58:00 Test Type: Conventional Bottom Hole (Reset)  
Time Test Ended: 23:26:30 Tester: Mike Roberts  
Unit No: 65

Interval: 4347.00 ft (KB) To 4398.00 ft (KB) (TVD) Reference Elevations: 2623.00 ft (KB)  
Total Depth: 4398.00 ft (KB) (TVD) 2614.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRVCF: 9.00 ft

Serial #: 8846 Inside 43.52 psig @ 4350.00 ft (KB) Capacity: 8000.00 psig  
Press@RunDepth: 84.05 psig @ 4350.00 ft (KB) Last Call: 2015.11.05  
Start Date: 2015.11.05 End Date: 2015.11.05 @ 19:57:45  
Start Time: 18:17:15 End Time: 2015.11.05 @ 17:17:30  
Time On Blnt: 2015.11.05 @ 17:17:30  
Time Off Blnt: 2015.11.05 @ 21:29:00

**TEST COMMENT:** F:Built to 14" blow  
IS:No return blow  
FF:No blow  
FS:No return blow



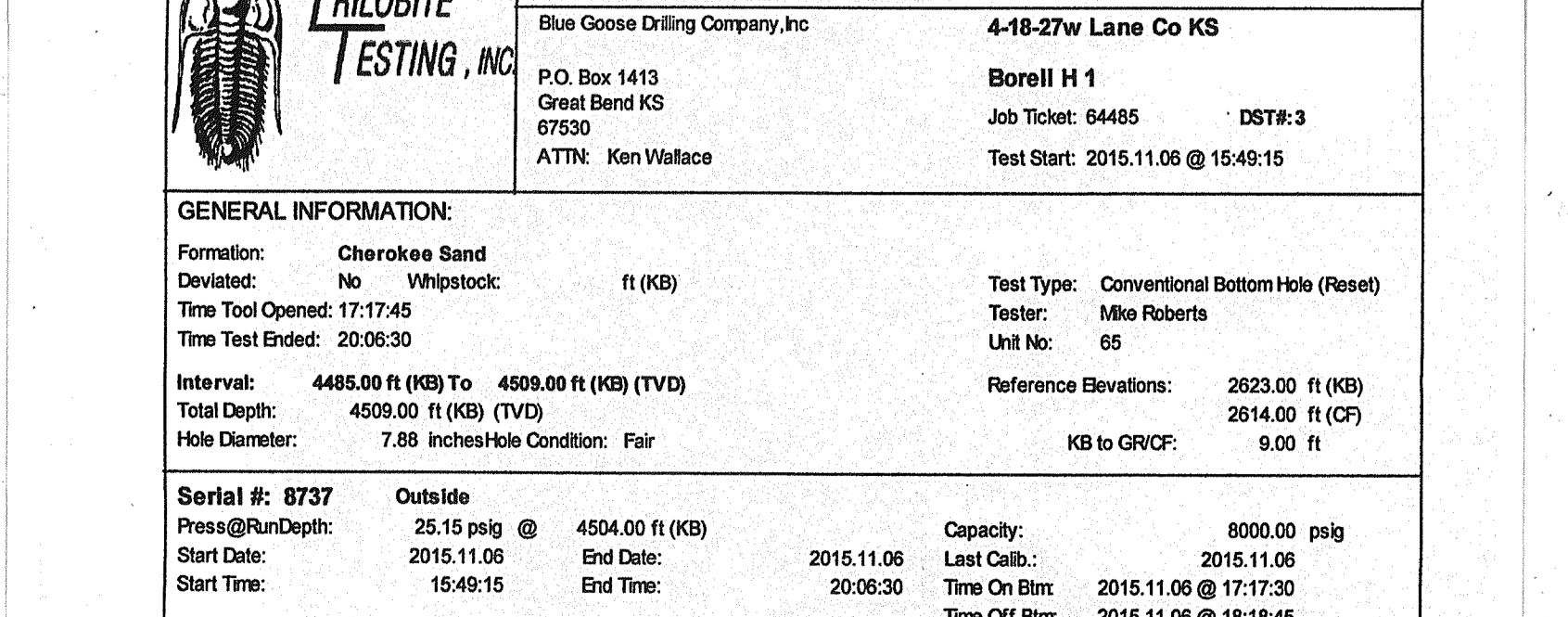
**TRILOBITE TESTING, INC.** DRILL STEM TEST REPORT  
Blue Goose Drilling Company, Inc. 4-18-27w Lane Co KS  
P.O. Box 1413 Great Bend KS 67530 Borell H 1  
ATTN: Ken Wallace Job Ticket: 64485 DST#:3  
Test Start: 2015.11.06 @ 15:49:15

**GENERAL INFORMATION:**  
Formation: Cherokee Sand Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:47:45 Test Type: Conventional Bottom Hole (Reset)  
Time Test Ended: 20:06:30 Tester: Mike Roberts  
Unit No: 65

Interval: 4485.00 ft (KB) To 4569.00 ft (KB) (TVD) Reference Elevations: 2623.00 ft (KB)  
Total Depth: 4509.00 ft (KB) (TVD) 2614.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRVCF: 9.00 ft

Serial #: 8737 Outside 25.15 psig @ 4504.00 ft (KB) Capacity: 8000.00 psig  
Press@RunDepth: 25.15 psig @ 4504.00 ft (KB) Last Call: 2015.11.06  
Start Date: 2015.11.06 End Date: 2015.11.06 @ 15:49:15  
Start Time: 20:06:30 End Time: 2015.11.06 @ 17:17:30  
Time On Blnt: 2015.11.06 @ 17:17:30  
Time Off Blnt: 2015.11.06 @ 18:18:45

**TEST COMMENT:** F:Built to weak surface blow and died in 12 min.  
IS:No return blow  
FF:No blow  
FS:No return blow



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

065736

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend KS

DATE <u>10-29-15</u>	SEC. <u>4</u>	TWP. <u>18</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00</u>	JOB FINISH <u>12:30</u>
LEASE <u>Borgill</u>	WELL# <u>1</u>	LOCATION <u>Turkey Red RD NTD</u>			COUNTY <u>Harc</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>Leave Loc at Southwind</u>					

**CONTRACTOR** H-D Ria 3

**TYPE OF JOB** Sandstone

HOLE SIZE 12 1/4 T.D. 267

CASING SIZE 8 3/4 DEPTH 267

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 16 BBLs

**EQUIPMENT**

PUMP TRUCK CEMENTER Lewayne Davis

# 3166 HELPER Brian Long

BULK TRUCK

# 609/198 DRIVER Mavlin

BULK TRUCK

# DRIVER

**OWNER**

**CEMENT**

AMOUNT ORDERED 1755X Class A

3.3% CC + 2% GCL

COMMON	<u>175</u>	@ <u>17.90</u>	<u>3.132.50</u>
POZMIX		@	
GEL	<u>329</u>	@ <u>.50</u>	<u>164.50</u>
CHLORIDE	<u>493</u>	@ <u>1.10</u>	<u>542.30</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	

**REMARKS:**

Had safety meeting Ria up

Ran 267 feet casing. Bore

circulation with Ria mud.

Ran 5 BBLs #3 Ahead mix 1755X

Class A + 3% CC + 2% GCL

Displace 16 BBLs #3

Shut in. cement did

circulate

TOTAL 3.839.30

DISCOUNT 45 % 1.727.67

2.111.61

CHARGE TO: Blue Goose

STREET \_\_\_\_\_

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

**SERVICE**

HANDLING	<u>189.23</u>	@ <u>2.48</u>	<u>469.29</u>
MILEAGE	<u>8.63 X 23X</u>	<u>2.75</u>	<u>546.22</u>
DEPTH OF JOB		<u>267</u>	
PUMP TRUCK CHARGE			<u>1512.25</u>
EXTRA FOOTAGE		@	
HV MILEAGE	<u>23</u>	@ <u>7.70</u>	<u>177.10</u>
LV MILEAGE	<u>23</u>	@ <u>4.40</u>	<u>101.20</u>
		@	
		@	

TOTAL 2.846.04

DISCOUNT 45 % 1.262.73

1543.33

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.

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

DISCOUNT \_\_\_\_\_ % \_\_\_\_\_

PRINTED NAME LEWAYNE TRESNER

SIGNATURE Lewayne Tresner

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

TOTAL CHARGES 16.645.34

DISCOUNT 2990.42 IF PAID IN 30 DAYS

NET TOTAL 31254.94 IF PAID IN 30 DAYS

# ALLIED OIL & GAS SERVICES, LLC

055815

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend KS

DATE <u>11-7-15</u>	SEC. <u>4</u>	TWP. <u>18</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION <u>3:30 PM</u>	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>Bore 11</u> WELL # <u>1</u>		LOCATION <u>Ness City KS</u>		<u>W</u>	COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				<u>N. Sebring</u>			

CONTRACTOR Hed Drilling  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D. 4580  
 CASING SIZE 8 5/8 DEPTH 265  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 16.6 DEPTH 2090  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT

OWNER  
 CEMENT  
 AMOUNT ORDERED 250 65/40 49 gal 1/4 #10  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC @  
250 sks 60/40 49% @ 18.92 4,730.00  
HO 63 @ 2.97 187.11  
 @ 45% 2,212.70  
 @  
 @  
 @  
 @  
 HANDLING 268.53 @ 2.48 665.25  
 MILEAGE 11.21 x 23 x 2.75 709.03  
 TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER Robert Yabubovich  
 # 366 HELPER Brian Lang  
 BULK TRUCK  
 # 410 DRIVER Tracy Jordan  
 BULK TRUCK  
 # DRIVER

REMARKS:

p1 50 sks @ 2090  
p2 80 sks @ 1200  
p3 40 sks @ 700  
p4 50 sks @ 310  
p5 20 sks @ 60  
30 sks in Rathole  
KCC # 99996  
Thank you!!!

CHARGE TO: Blue Goose Drilling, Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 2090  
 PUMP TRUCK CHARGE 2483.57  
 EXTRA FOOTAGE @  
 MILEAGE HUM 23 @ 7.70 177.10  
 MANIFOLD LUM 23 @ 4.40 101.20  
 @  
 @

TOTAL 4,136.87  
45% 1,861.59

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 LEWAYNE TRESNER

SIGNATURE Lewayne Tresner

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 9,053.98  
 DISCOUNT 4,074.29 IF PAID IN 30 DAYS  
4,979.69