[redacted]

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1333336

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 # 31528
Name: Mike Kelso Oil, Inc.
Address 1: PO BOX 467
Address 2:
City: CHASE State: KS Zip: 67524 + 0467
Contact Person: Mike Kelso
Phone: (620) 793-6032
CONTRACTOR: License # 34908
Name: Skytop Drilling LLC
Wellsite Geologist: Pat Deenihan
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 #:

09/20/2016	09/29/2016	09/30/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25924-00-00
Spot Description:
NW SW NW NE Sec. 15 Twp. 17 S. R. 21 ☐ East ☑ West
982 Feet from ☑ North / ☐ South Line of Section
2430 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ness
Lease Name: FHW-WIERMAN Well #: 15-1
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 2203 Kelly Bushing: 2210
Total Vertical Depth: 4250 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 325 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: 10000 ppm Fluid volume: 600 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 02/08/2017

[redacted]

1333336

Operator Name: Mike Kelso Oil, Inc. Lease Name: FHW-WIERMAN Well #: 15-1

Sec. 15 Twp. 17 S. R. 21 ☐ East ☑ West County: Ness

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Comp Log
Dual Induction Log
Microsensitivity Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
B/Anhy	1521	689
Heebner Sh.	3717	-1407
Lansing	3658	-1448
Marmaton	3966	-1756
Pawnee	4021	-1811
Cherokee Sh.	4119	-1909
Mississippi	4180	-1970

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	325	60/40poz	250	2% Gel 3% Calcium Chloride

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	FHW-WIERMAN 15-1
Doc ID	1333336

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	325	60/40poz	250	2% Gel 3% Calcium Chloride

PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company MIKE KELSO OIL, INC.
Well FHW-WIERMAN #15-1
Field MCGAUGHEY
County NESS State KANSAS
Location: API #: 15-135-25924-00-00
982' FNL & 2430' FEL
SEC 15 TWP 17S RGE 21W

Other Services: DIL/MEL

Elevation: K.B. 2210' D.F. N/A G.L. 2203'

Permanent Datum GROUND LEVEL Elevation 2203'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Company	MIKE KELSO OIL, INC.
Well	FHW-WIERMAN #15-1
Field	MCGAUGHEY
County	NESS
State	KANSAS
Date	9/29/2016
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4250'
Depth Logger	4250'
Bottom Logged Interval	4222'
Top Logged Interval	3400'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	6800
Density	9.4
Level	FULL
Max. Rec. Temp. F	119
Operating Rig Time	3 HOURS
Equipment -- Location	91 COLBY
Recorded By	D. SCHMIDT
Witnessed By	PAT DEENIHAN

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	00'	320'
TWO	7.875"	320'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	00'	320'

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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.

MCCRACKEN,
FROM SOUTH END, 3 1/2 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

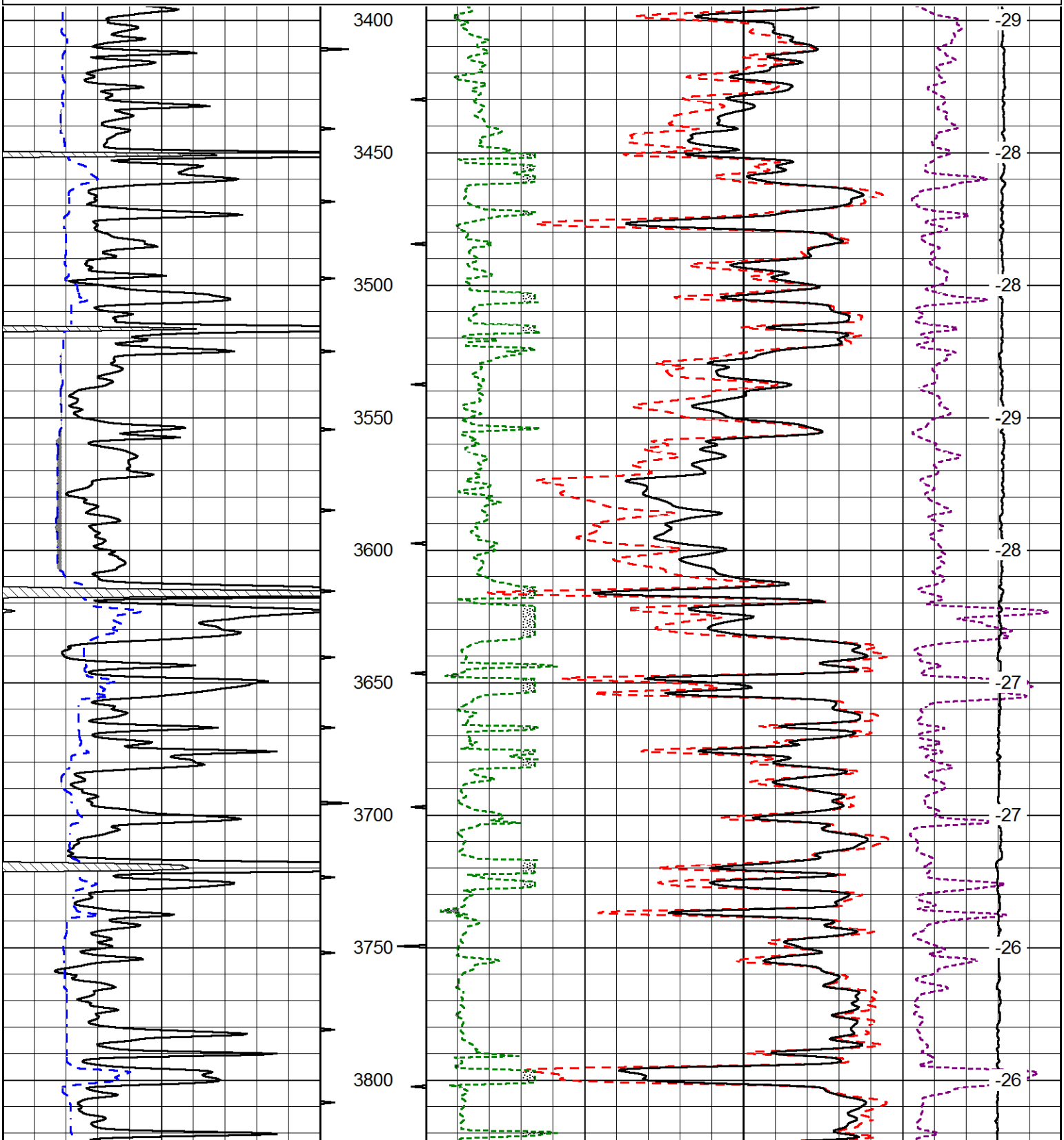
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

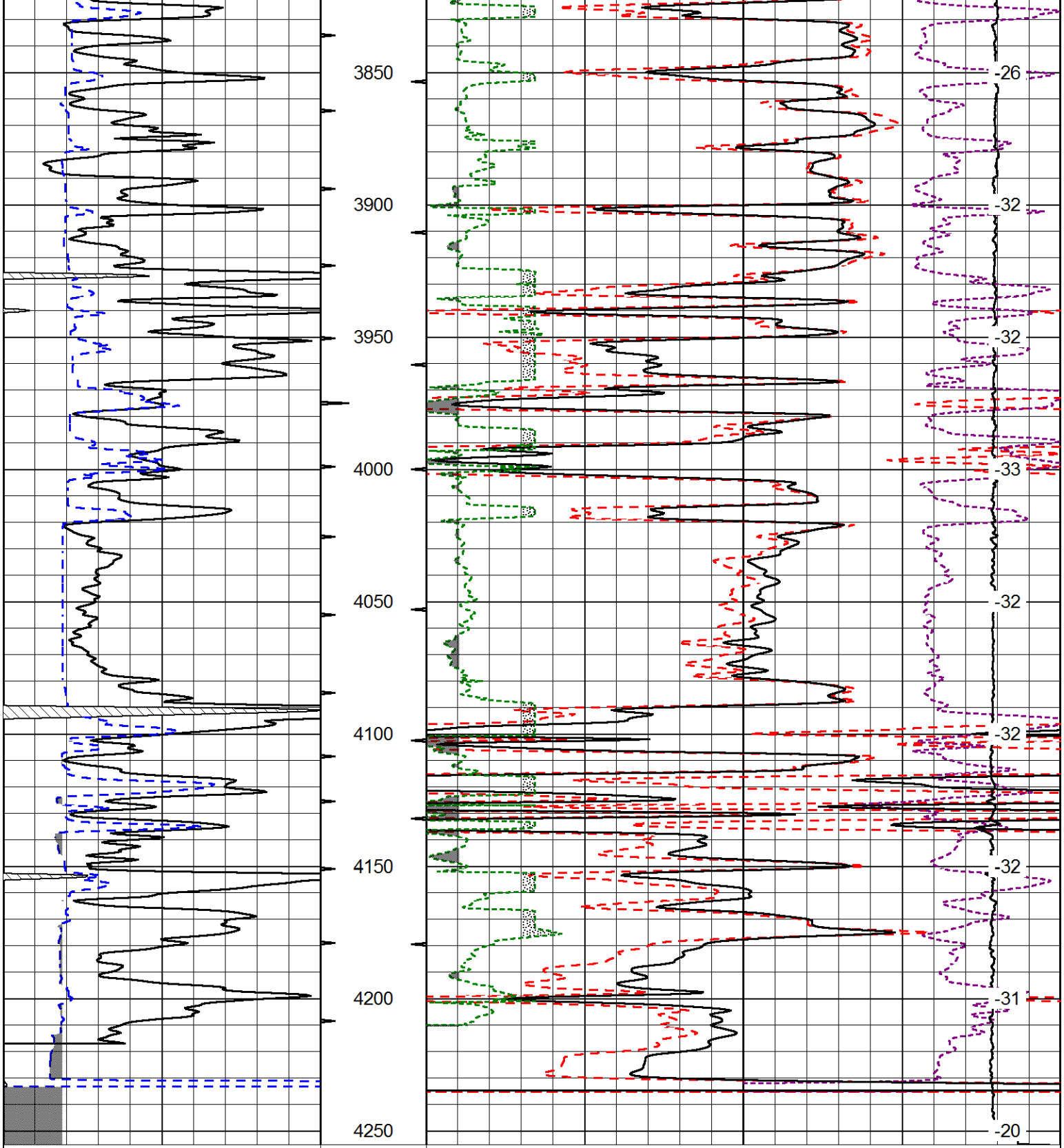
Database File	mike kelso_fhw-wierman_15-1hd.db
Dataset Pathname	DIL/mkstkml
Presentation Format	cdl
Dataset Creation	Thu Sep 29 21:51:59 2016
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)				-10
2	Bulk Density (g/cc)				3
15000	Line Tension (lb)				0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25

LSPD (ft/min)





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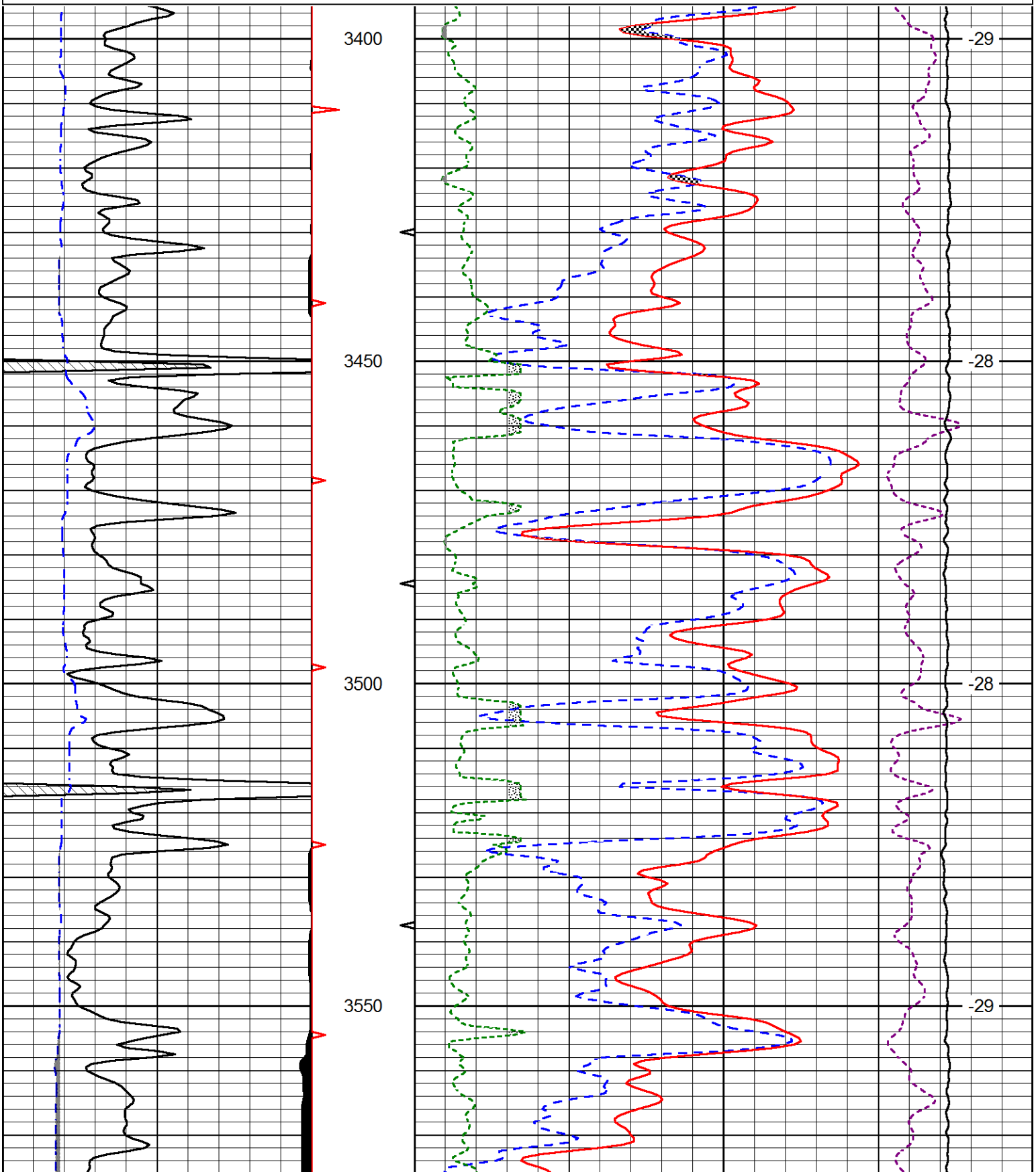
Dataset Pathname	DIL/mkstkml
Presentation Format	cndlspec

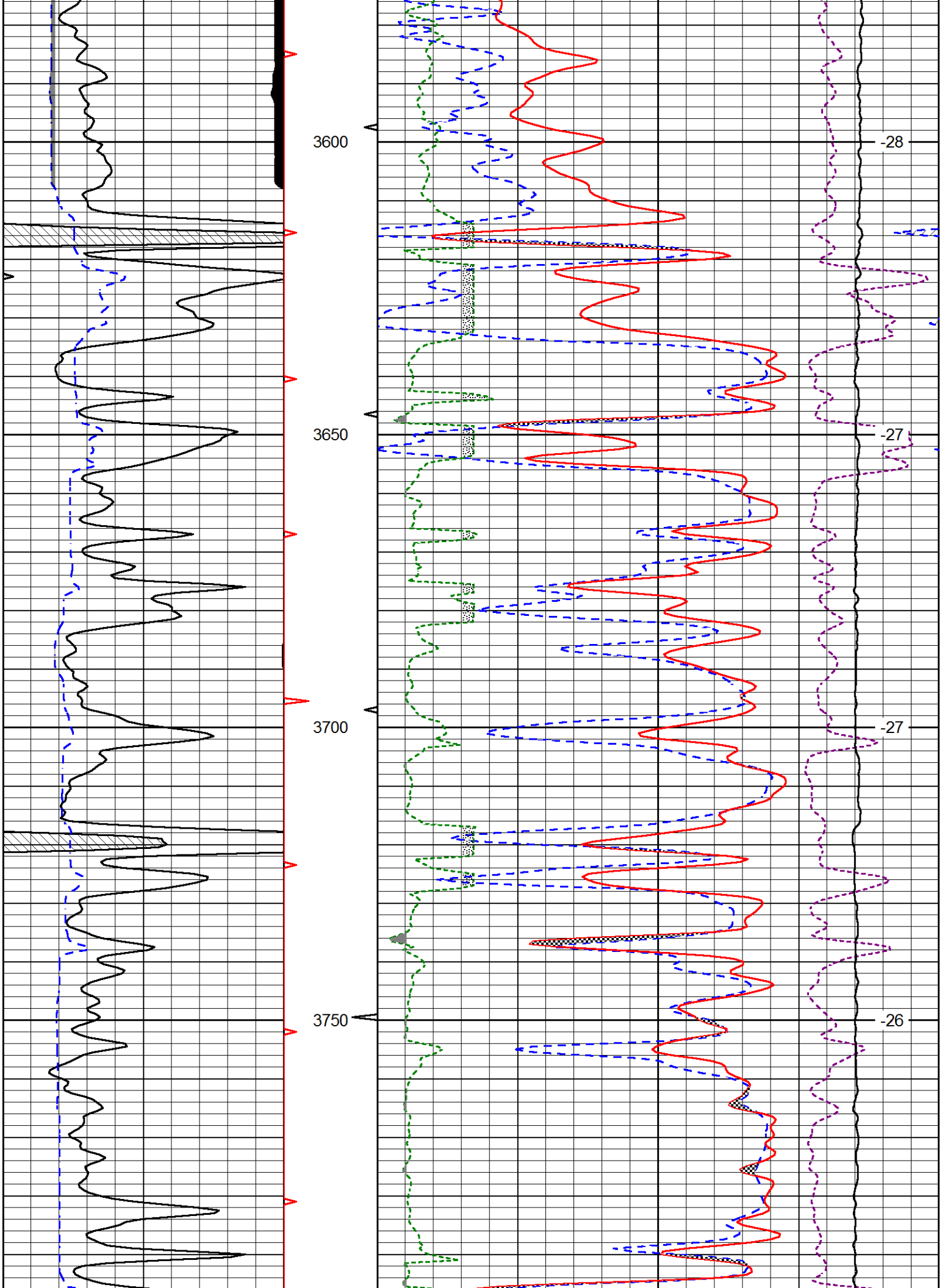
Dataset Creation Thu Sep 29 21:51:59 2016
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	CNLS (pu)			-10
30	Compensated Density (2.71 ma) (pu)			-10
10000	Line Tension (lb)			0
2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25

LSPD (ft/min)

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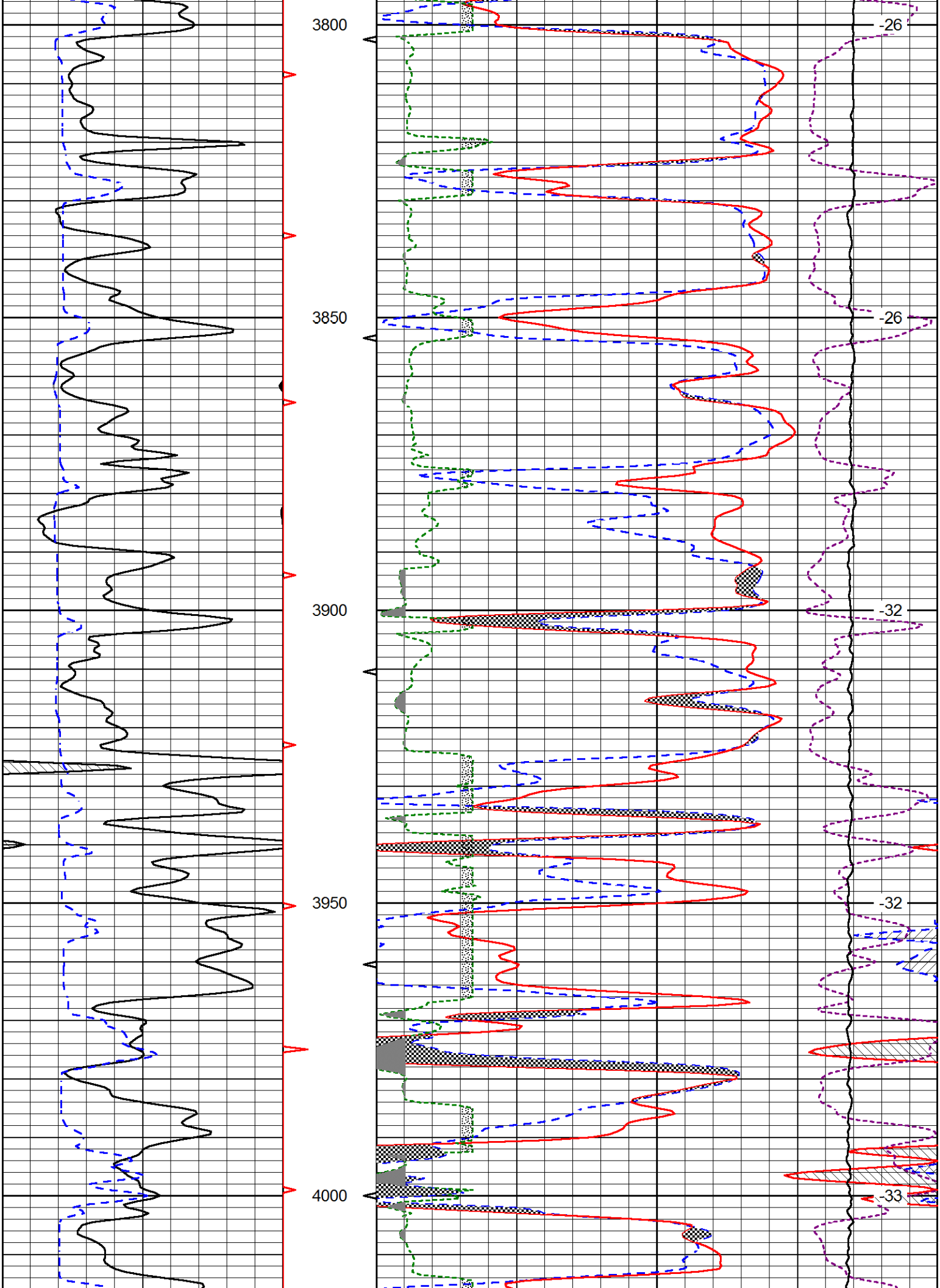
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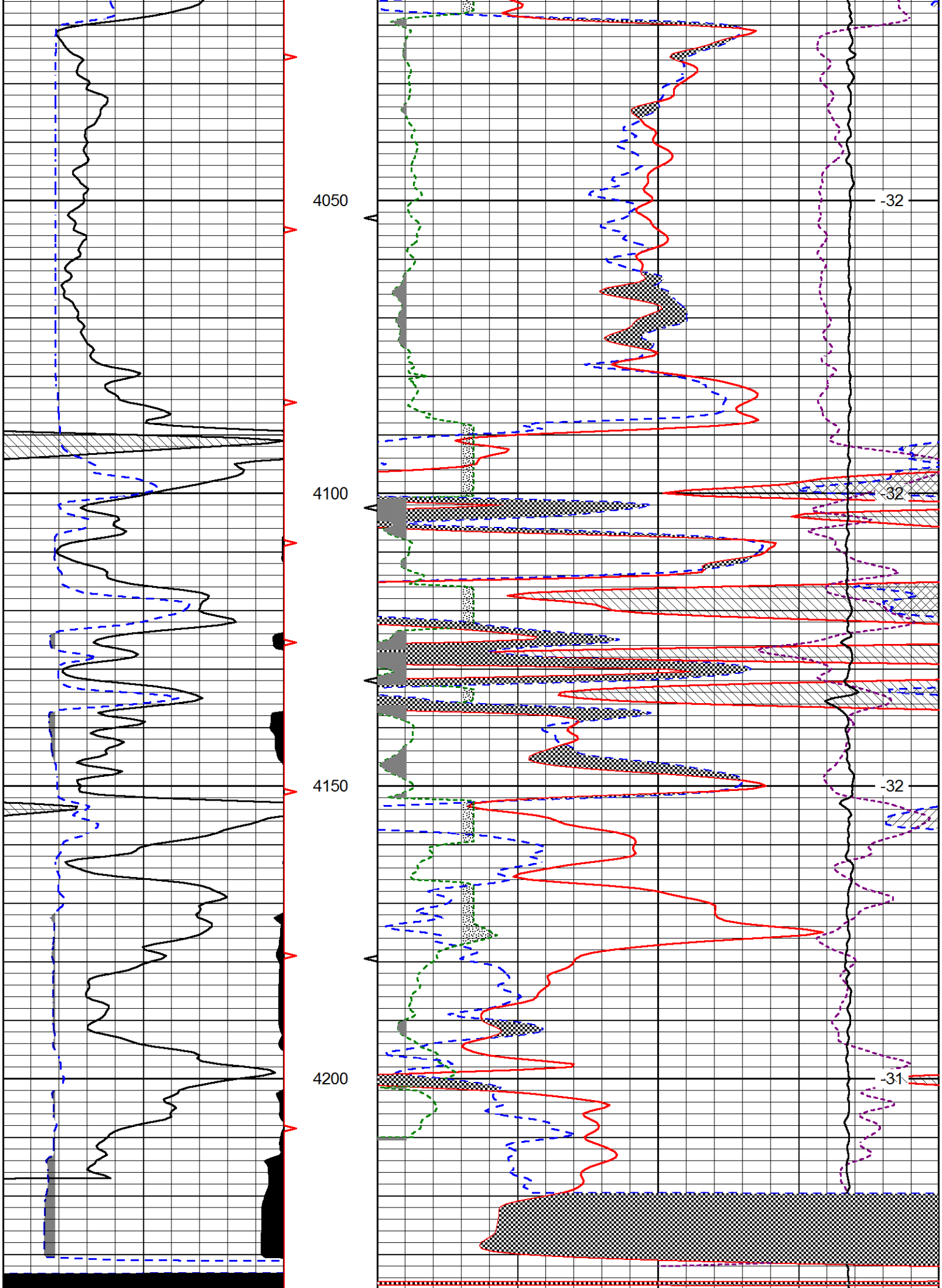
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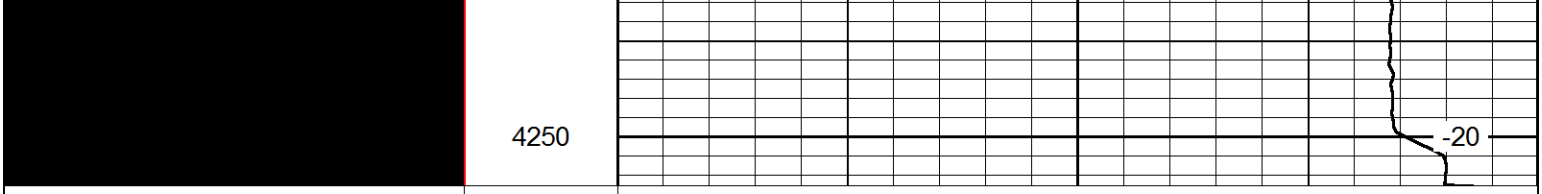

0	Gamma Ray (GAPI)	150	30	CNLS (pu)			-10
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)			-10
			10000	Line Tension (lb)			0
			2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25
							LSPD (ft/min)

PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company	MIKE KELSO OIL, INC.
Well	FHW-WIERMAN #15-1
Field	MCGAUGHEY
County	NESS
State	KANSAS

Company MIKE KELSO OIL, INC.
Well FHW-WIERMAN #15-1
Field MCGAUGHEY
County NESS State KANSAS

Location: API # : 15-135-25924-00-00

982' FNL & 2430' FEL

SEC 15 TWP 17S RGE 21W

Other Services: CNL/CDL, MEL

Permanent Datum	GROUND LEVEL	Elevation	2203'
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 2210'
D.F. N/A
G.L. 2203'

Date	9/29/2016			
Run Number	ONE			
Depth Driller	4250'			
Depth Logger	4250'			
Bottom Logged Interval	4249'			
Top Log Interval	300'			
Casing Driller	8.625" @ 320'			
Casing Logger	324'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	6800			
Density / Viscosity	9.4 / 51			
pH / Fluid Loss	9.0 / 9.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.50 @ 76			
Rmf @ Meas. Temp	0.38 @ 76			
Rmc @ Meas. Temp	0.68 @ 76			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.32 @ 119			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	119			
Equipment Number	91			
Location	COLBY			
Recorded By	D. SCHMIDT			
Witnessed By	PAT DEENIHAN			

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

MCCRACKEN,
FROM SOUTH END, 3 1/2 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Database File	mike kelso_fhw-wierman_15-1hd.db
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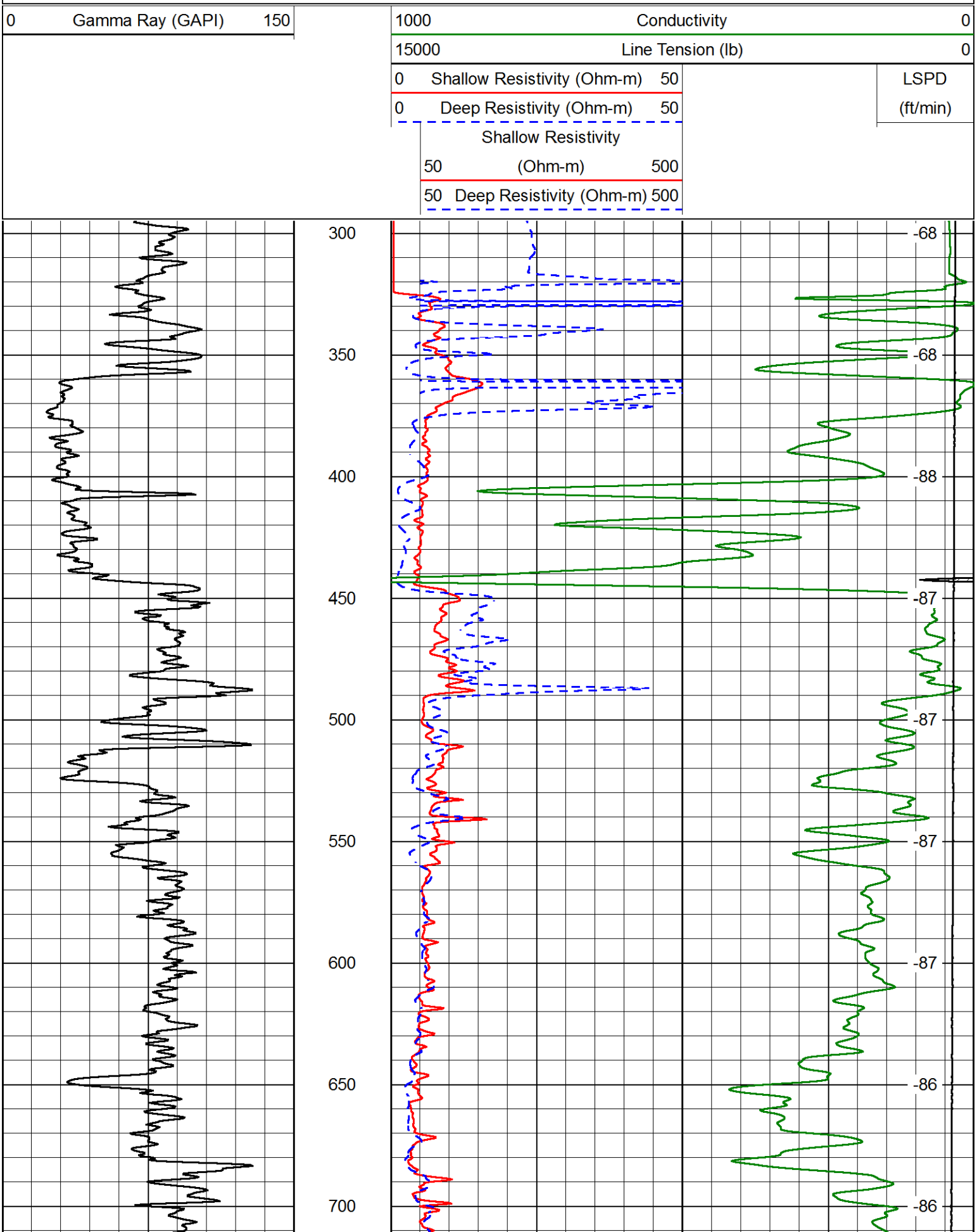
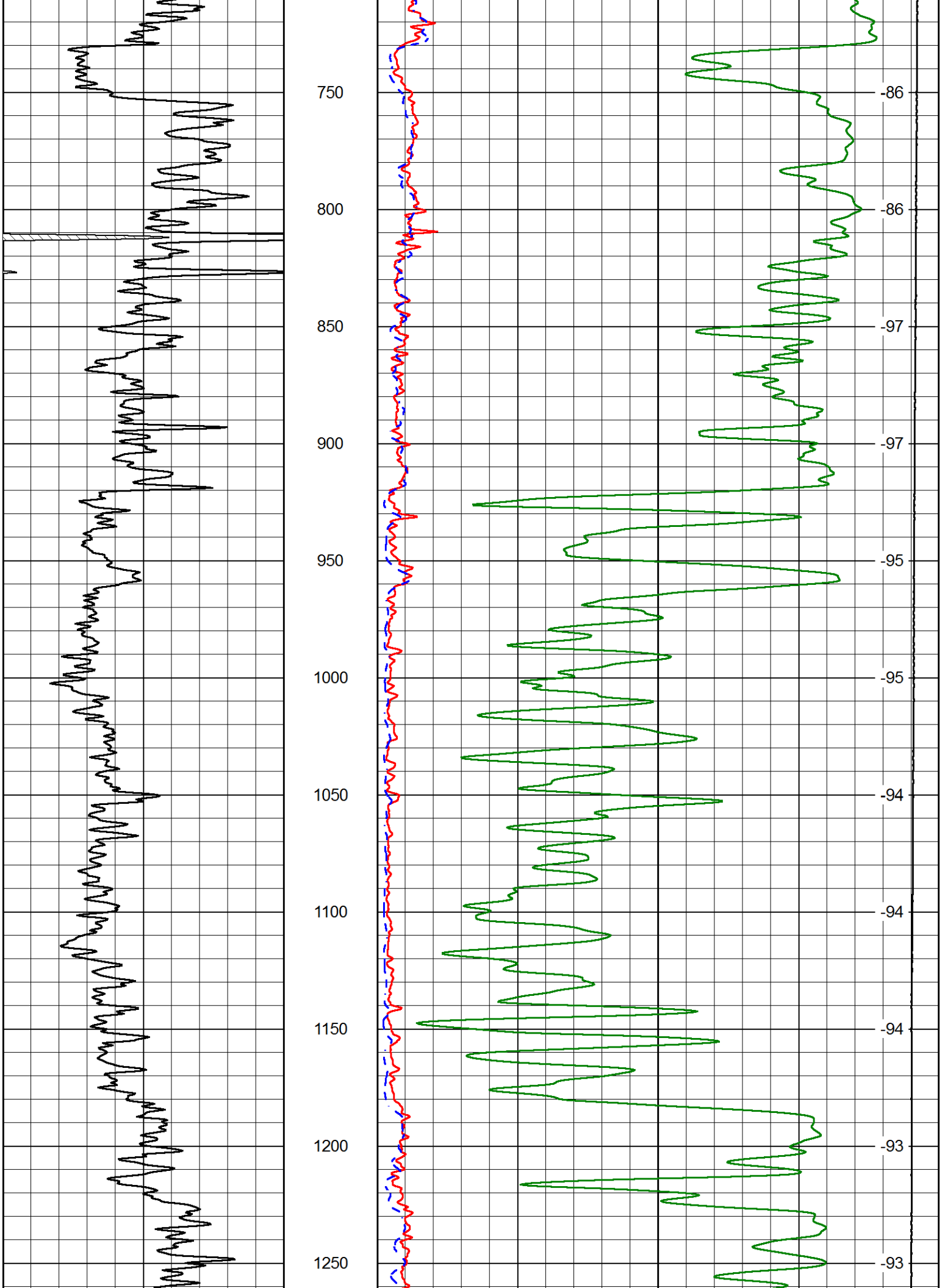
Presentation Format	dil2in
Dataset Creation	Thu Sep 29 21:51:59 2016
Charted by	Depth in Feet scaled 1:600

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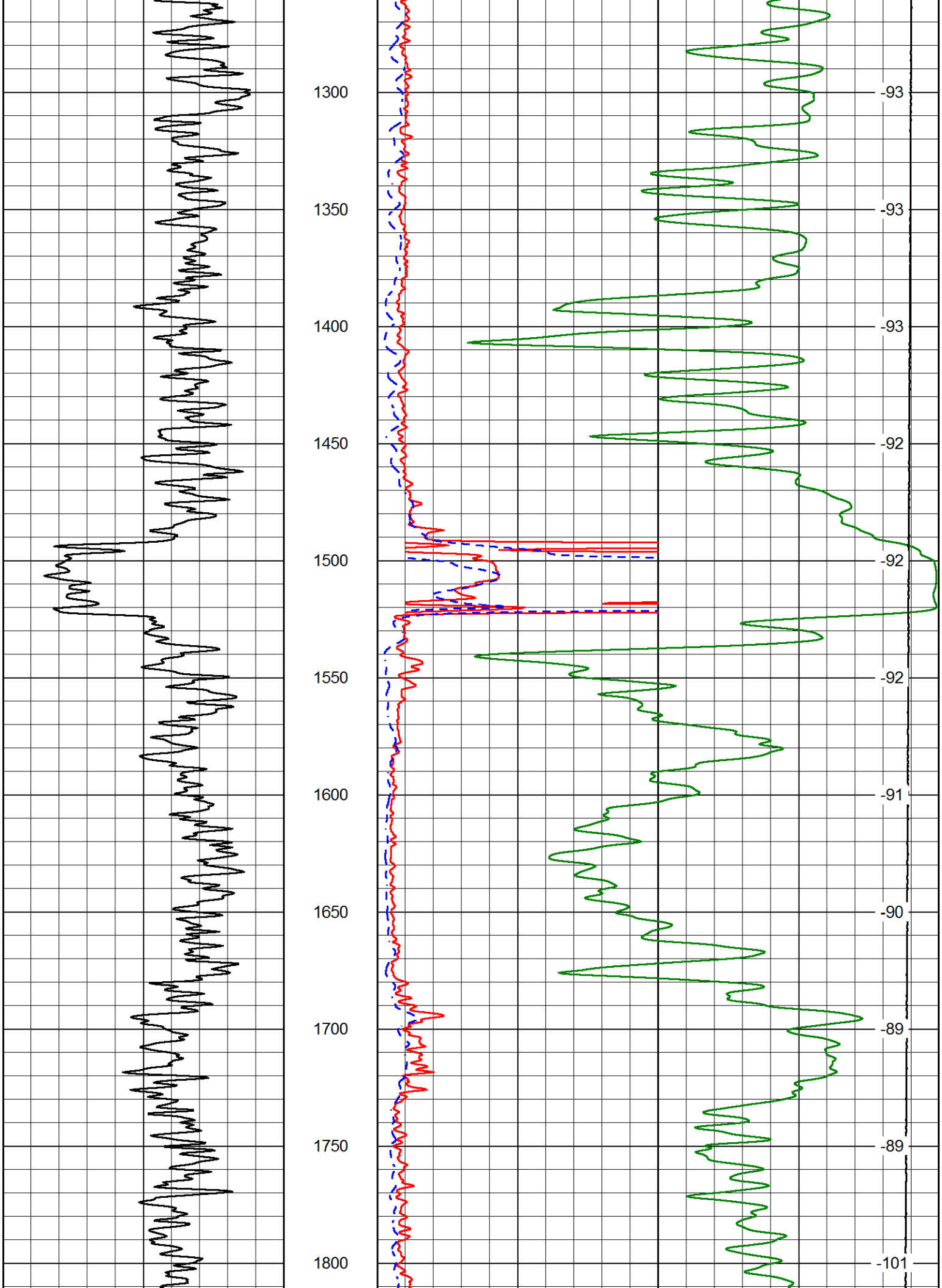
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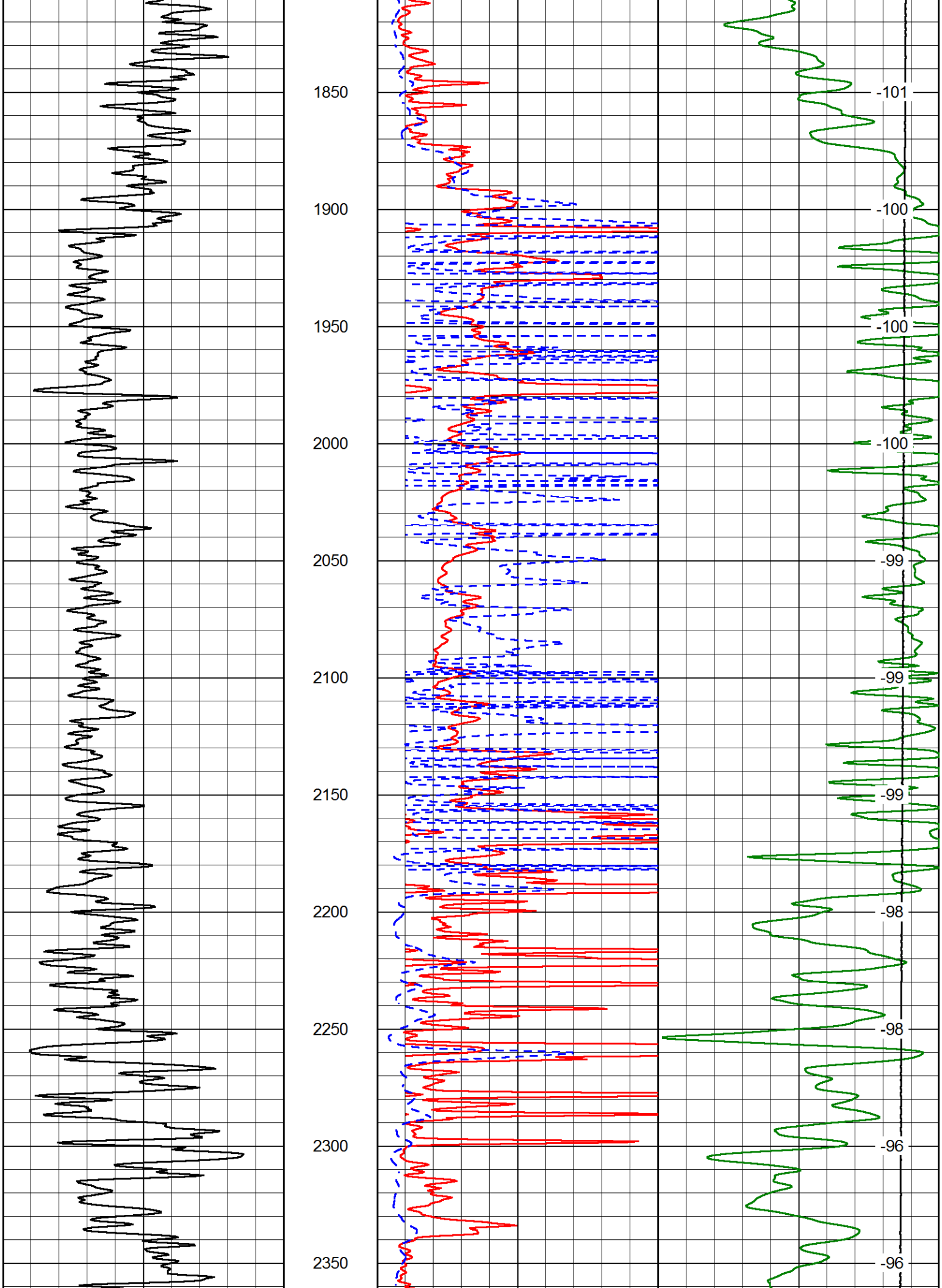
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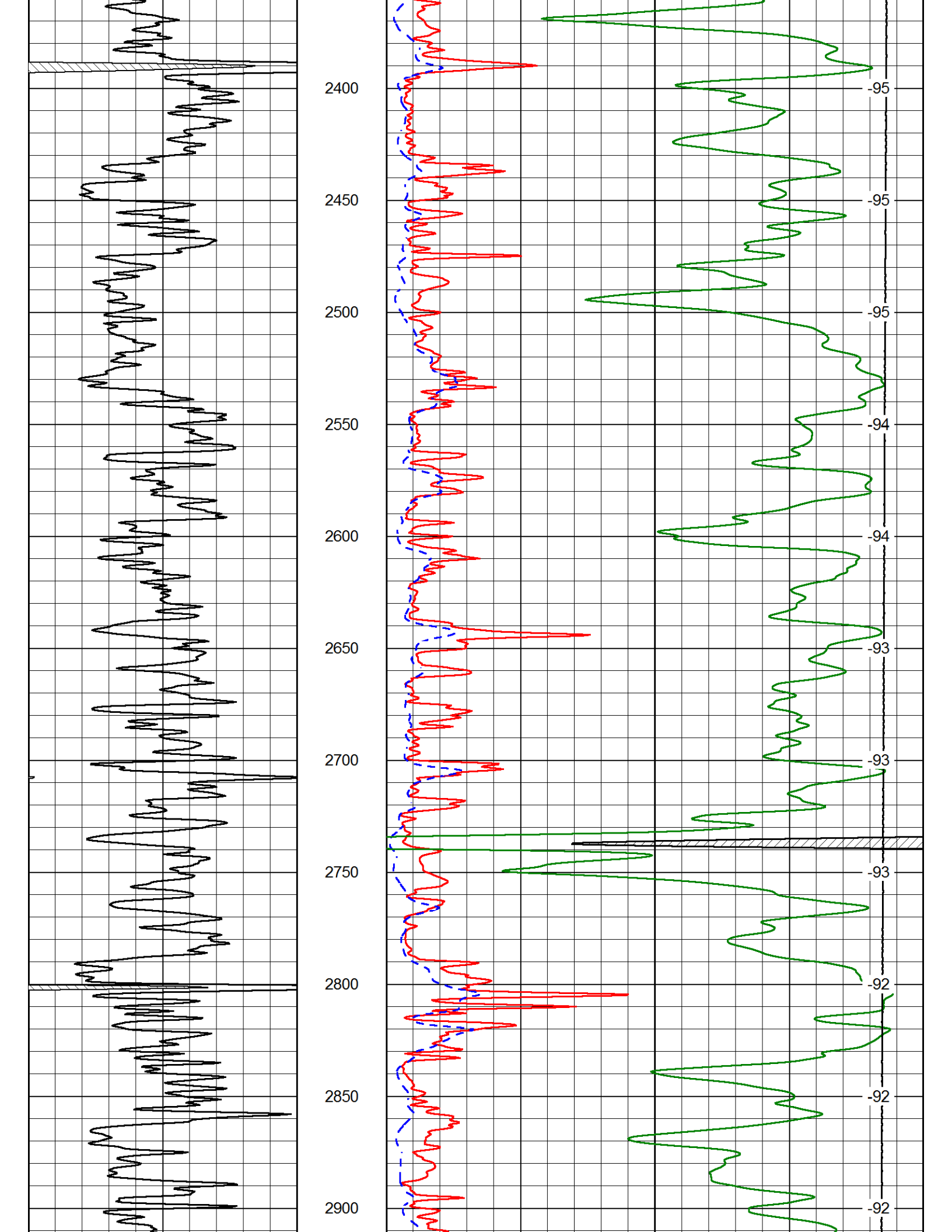
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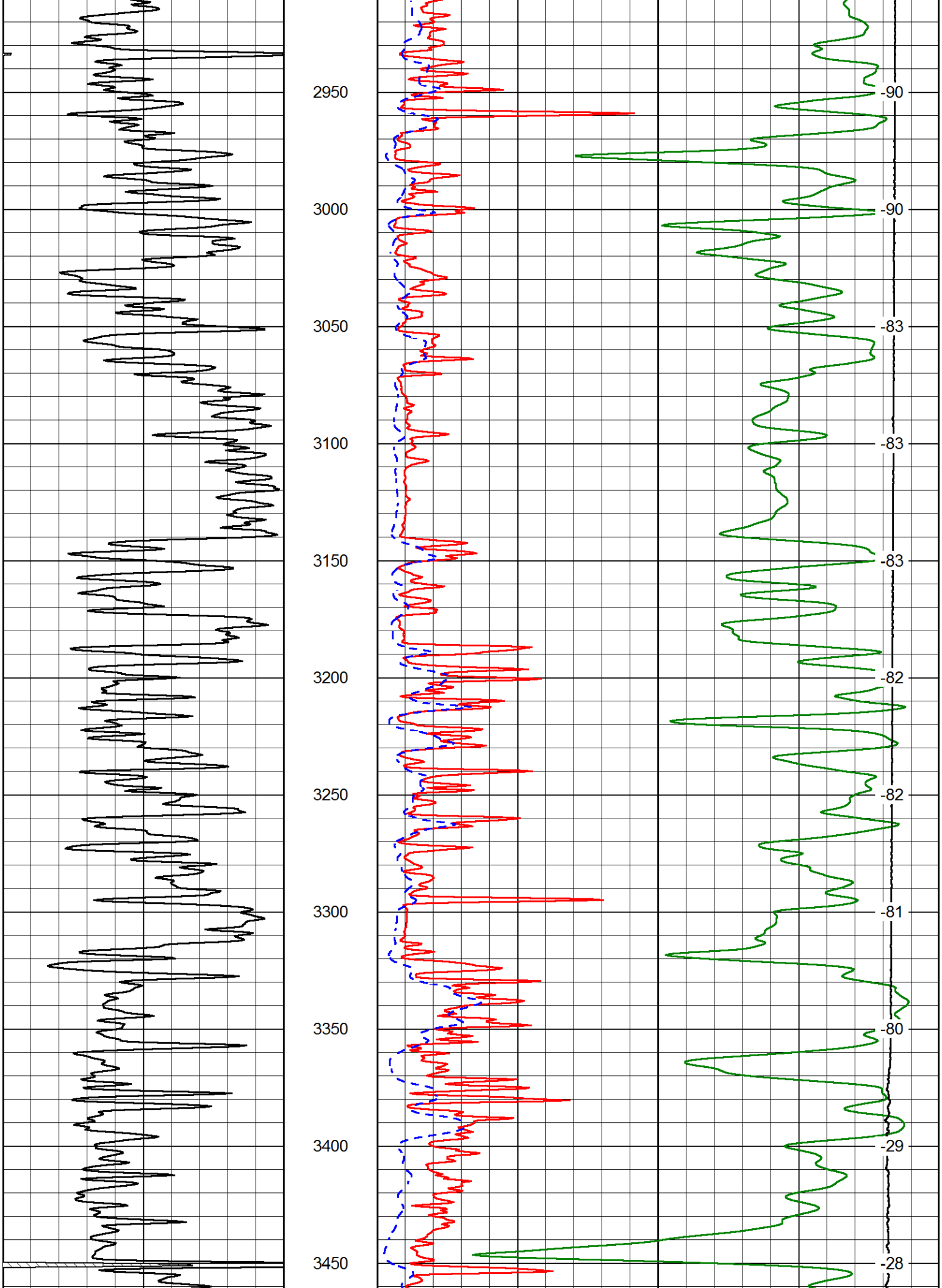
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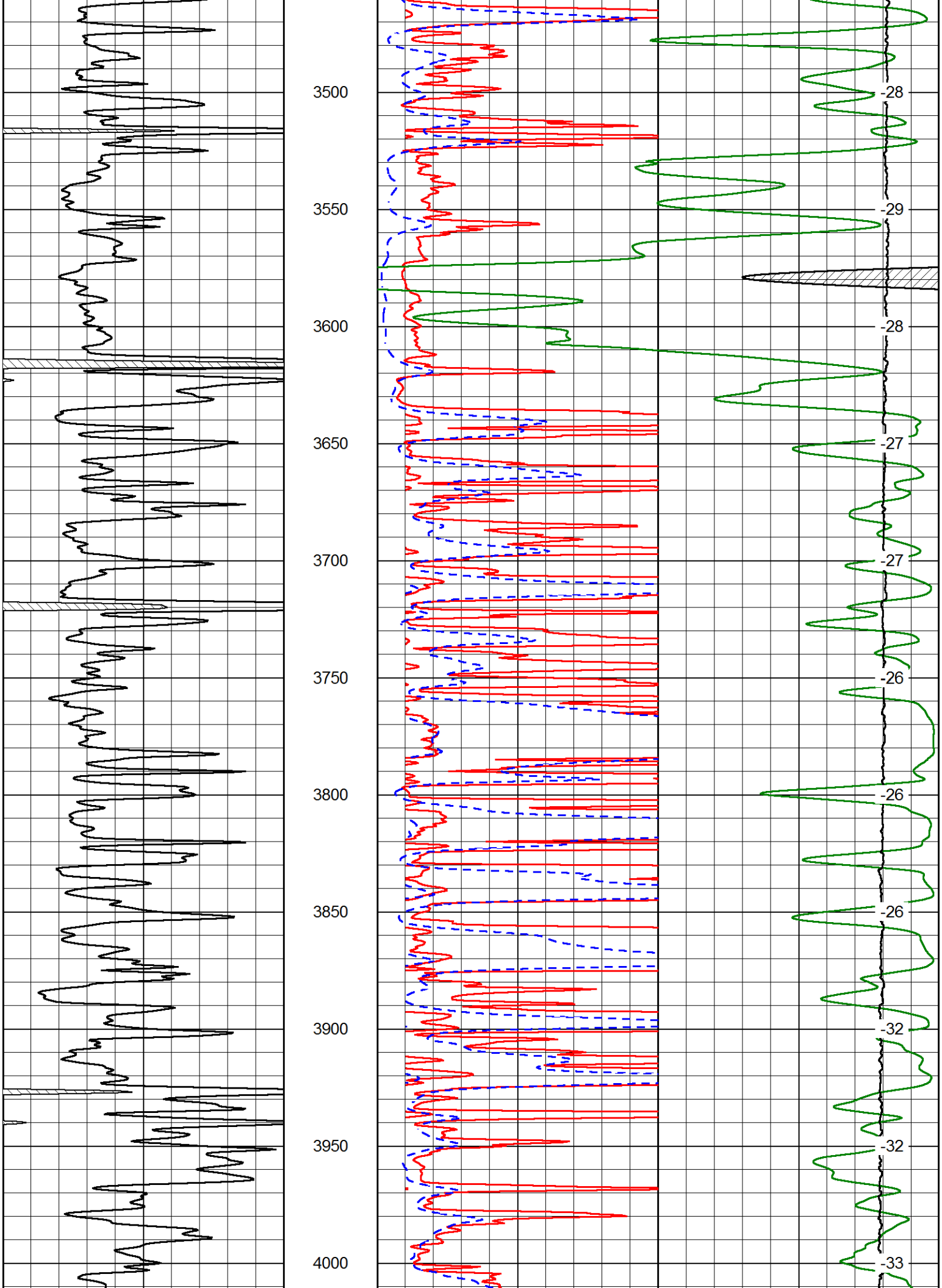
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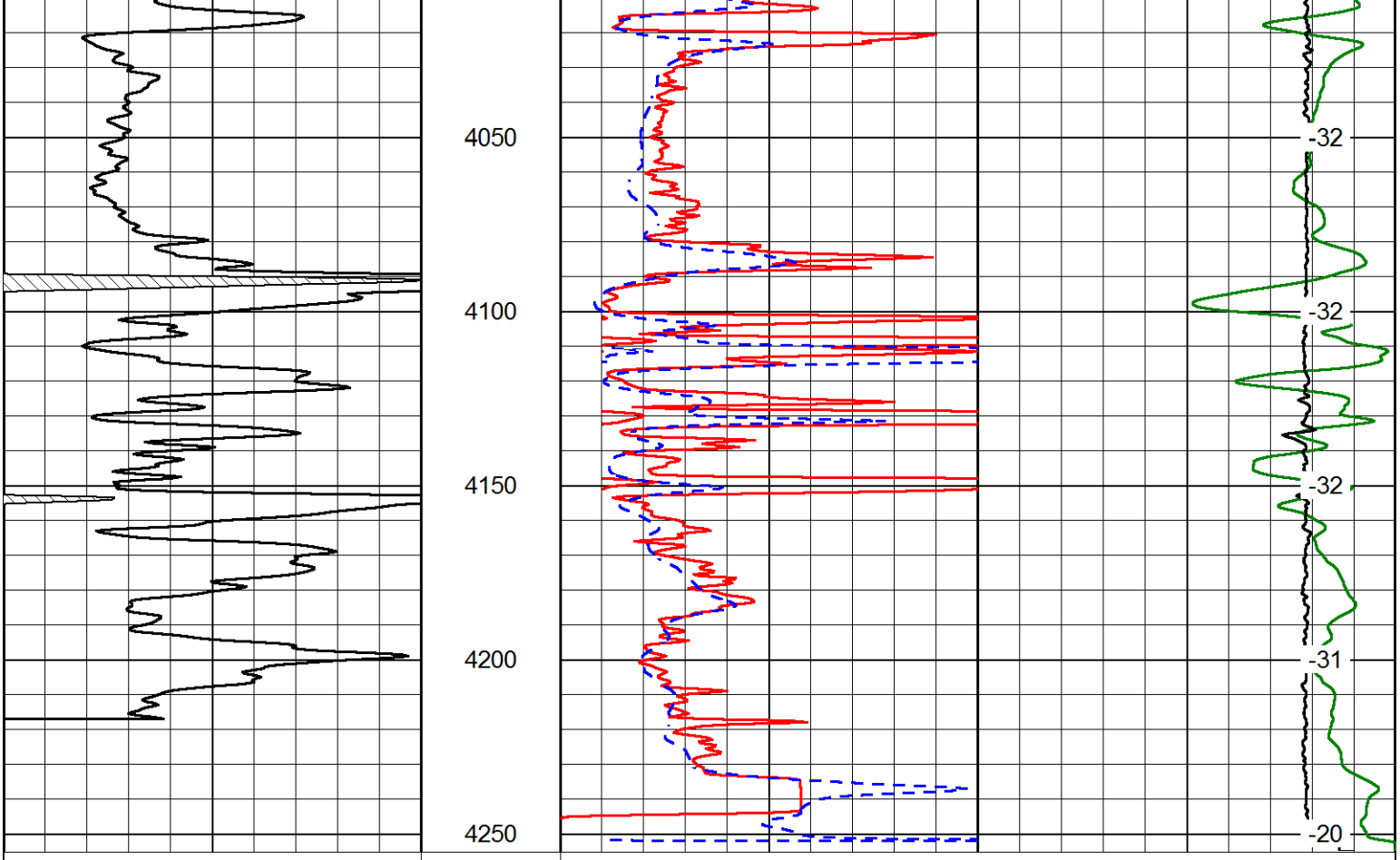

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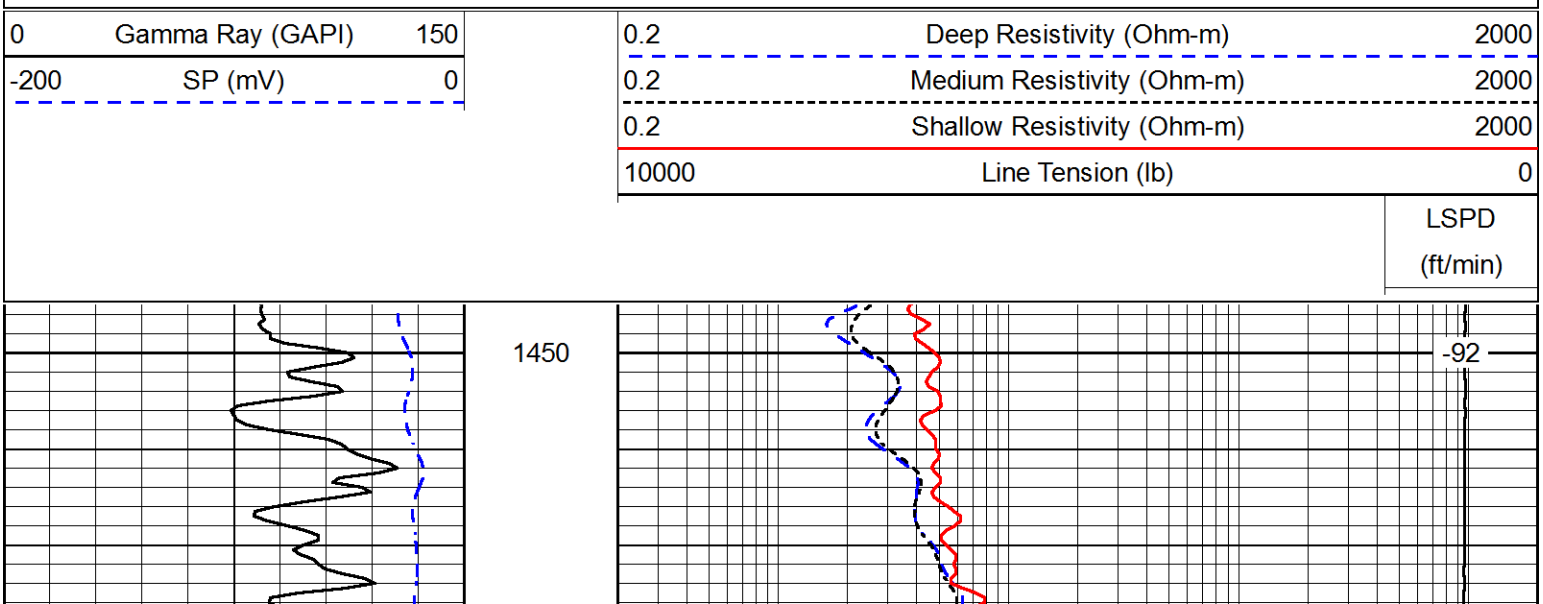
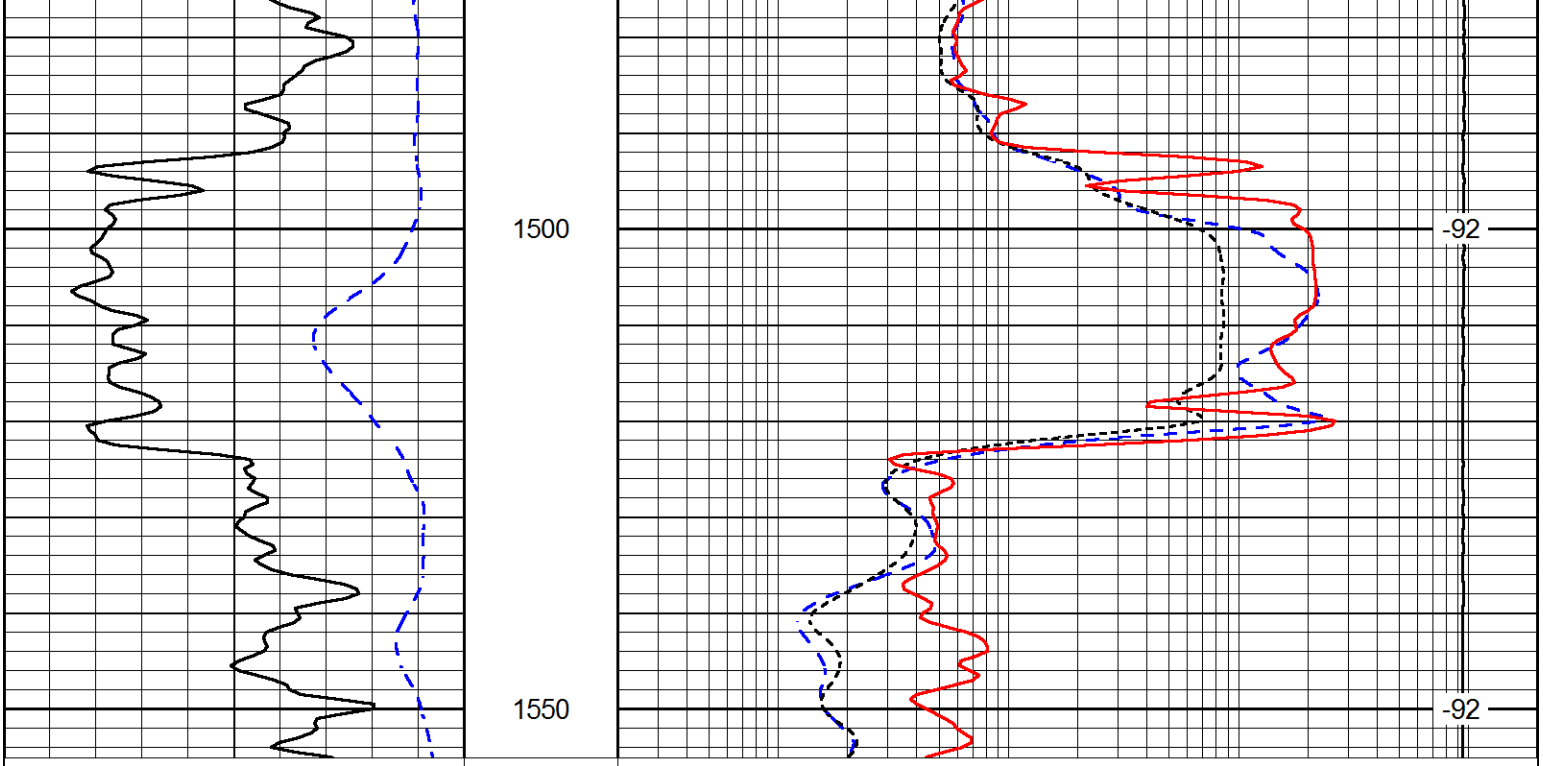
Presentation Format	dil
Dataset Creation	Thu Sep 29 21:51:59 2016
Charted by	Depth in Feet scaled 1:240





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-200	SP (mV)	0

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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
	LSPD (ft/min)	

Database File	mike kelso_fhw-wierman_15-1hd.db
Dataset Pathname	DIL/mkstkml
Presentation Format	dil
Dataset Creation	Thu Sep 29 21:51:59 2016
Charted by	Depth in Feet scaled 1:240

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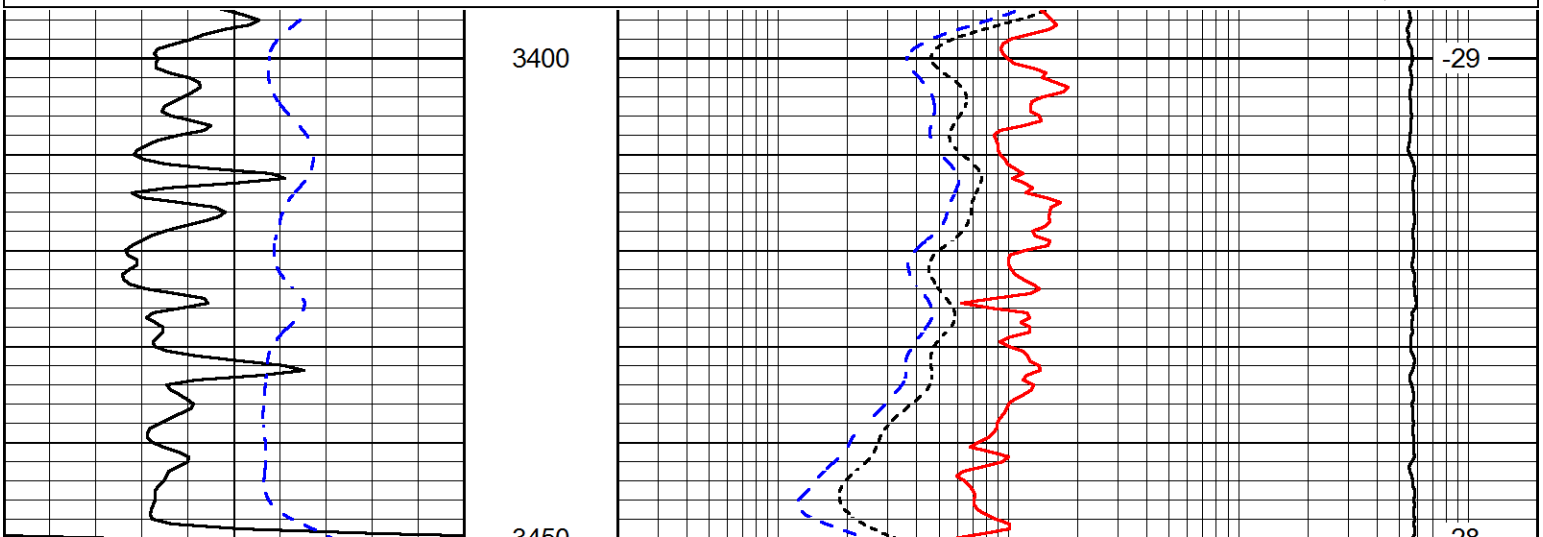
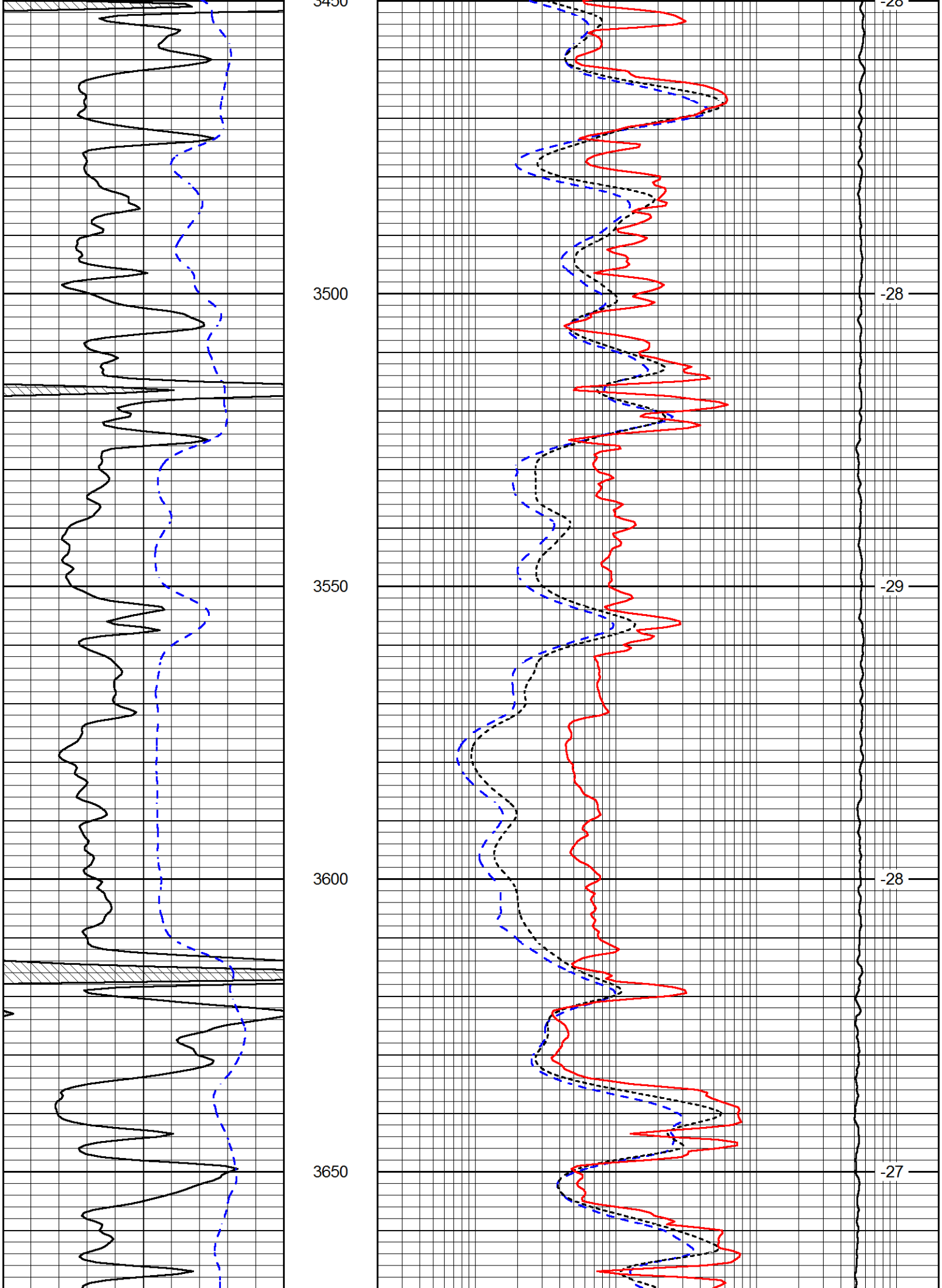
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
	LSPD (ft/min)	

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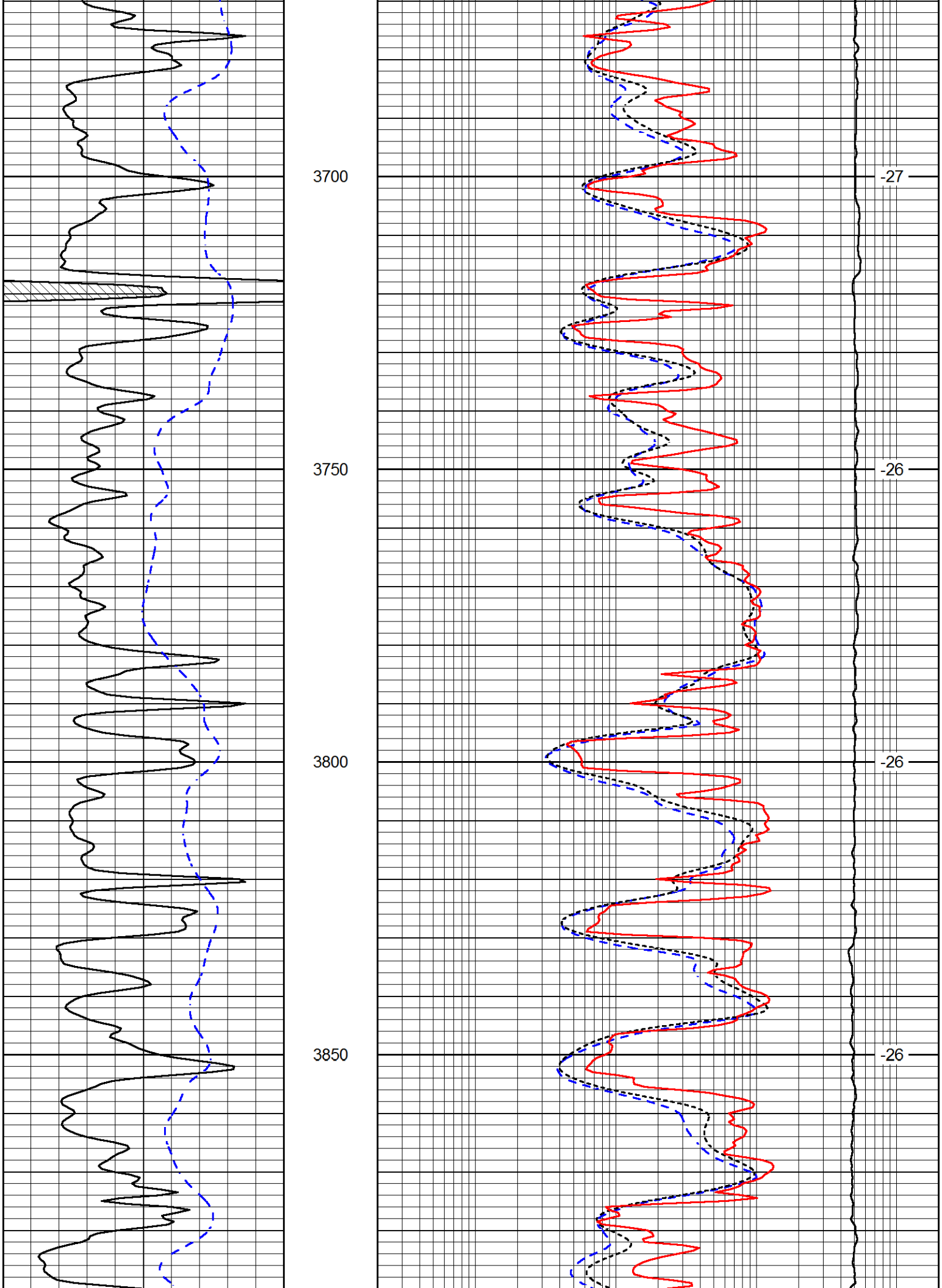
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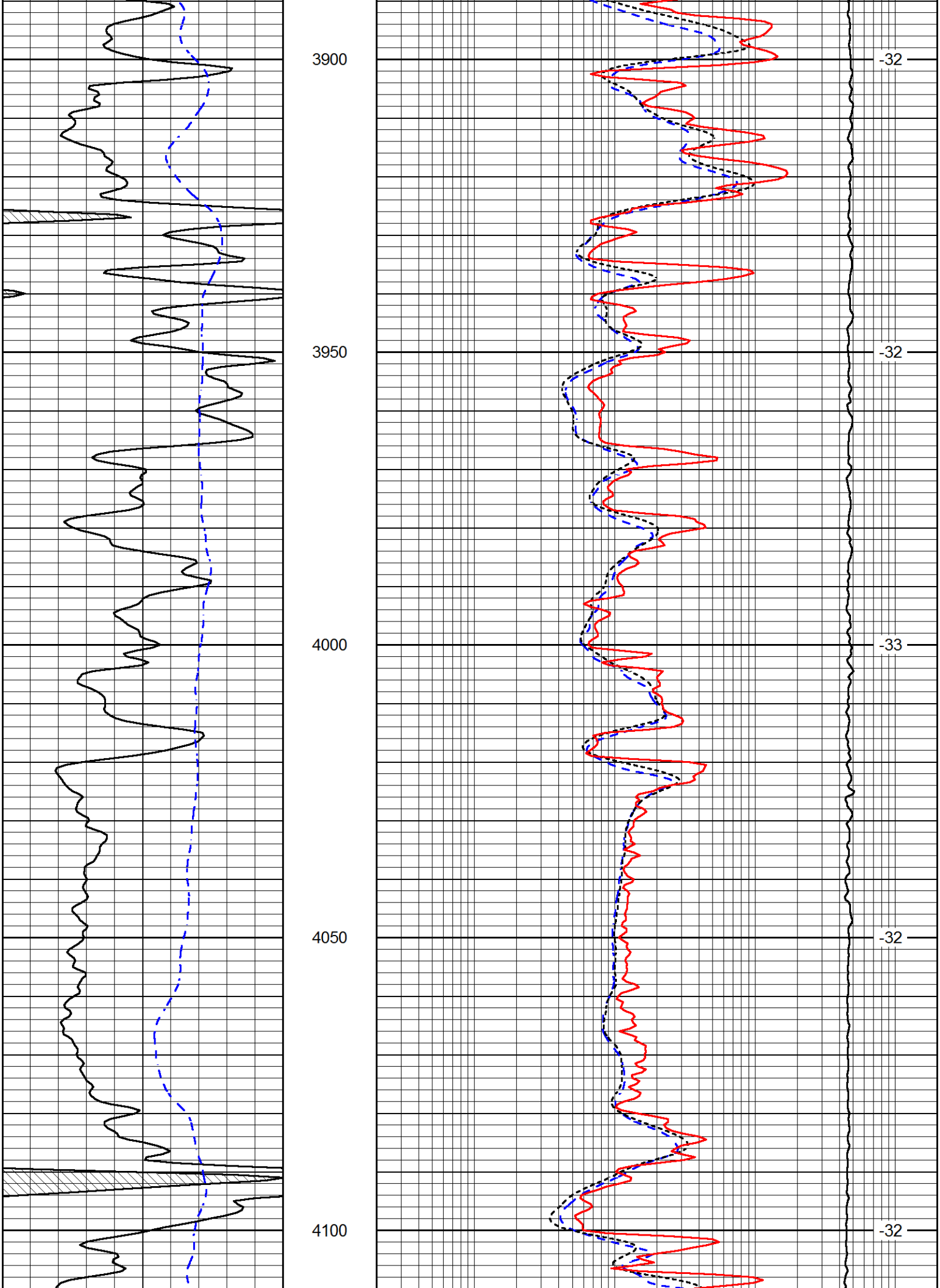
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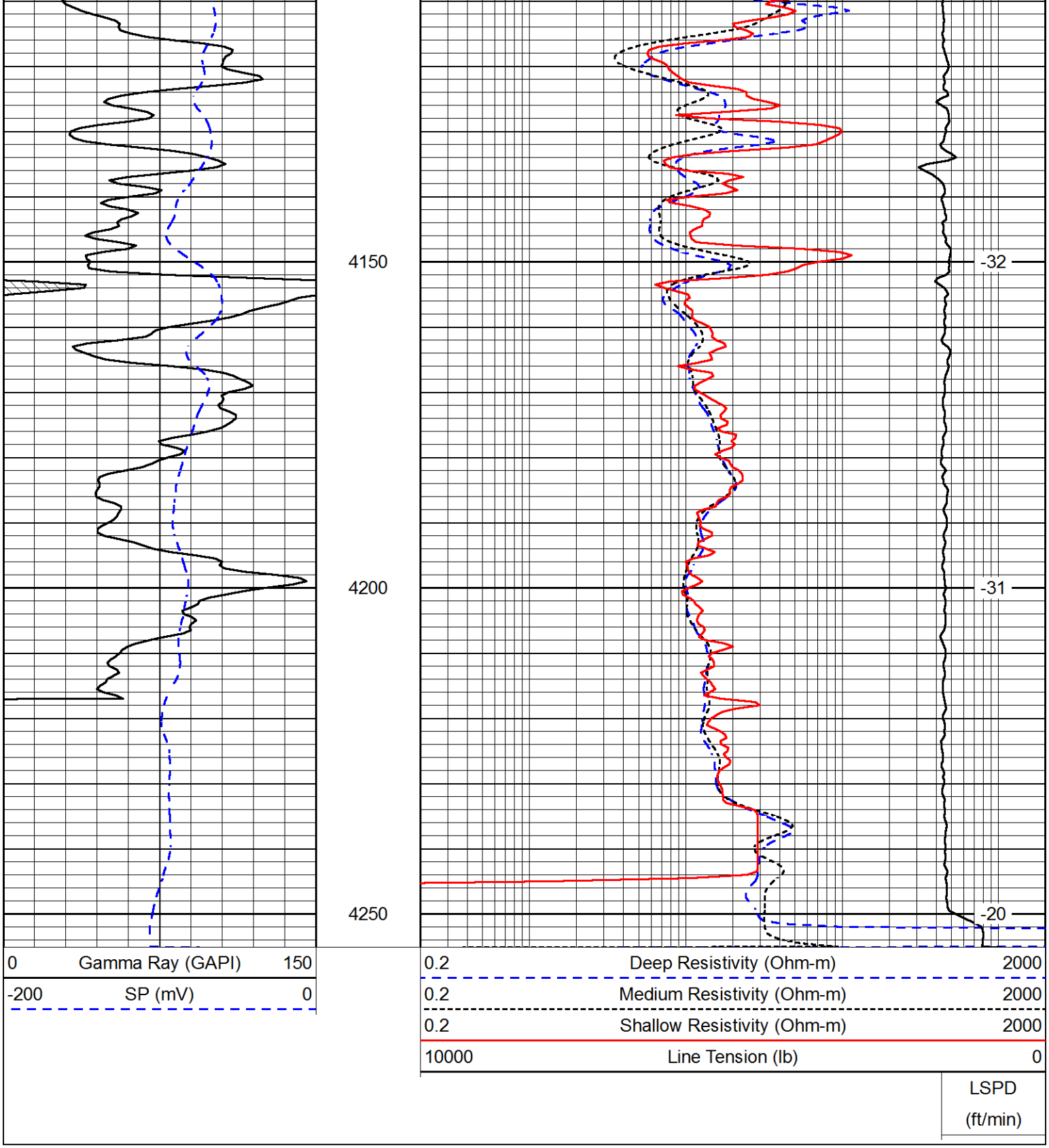
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-31
-20
0
Gamma Ray (GAPI)
150
-200
SP (mV)
0
0.2
Deep Resistivity (Ohm-m)
2000
0.2
Medium Resistivity (Ohm-m)
2000
0.2
Shallow Resistivity (Ohm-m)
2000
10000
Line Tension (lb)
0
LSPD
(ft/min)

PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company MIKE KELSO OIL, INC.
Well FHW-WIERMAN #15-1
Field MCGAUGHEY
County NESS State KANSAS

Location: API #: 15-135-25924-00-00
982' FNL & 2430' FEL
SEC 15 TWP 17S RGE 21W

Other Services
CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 2203'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2210'
D.F. N/A
G.L. 2203'

Company MIKE KELSO OIL, INC.
Well FHW-WIERMAN #15-1
Field MCGAUGHEY
County NESS
State KANSAS

Date	9/29/2016					
Run Number	ONE					
Depth Driller	4250'					
Depth Logger	4250'					
Bottom Logged Interval	4249'					
Top Log Interval	3400'					
Casing Driller	8.625" @ 320'					
Casing Logger	324'					
Bit Size	7.875"					
Type Fluid in Hole	CHEMICAL					
Salinity,ppm CL	6800					
Density / Viscosity	9.4	51				
pH / Fluid Loss	9.0	9.8				
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	0.50 @ 76					
Rmf @ Meas. Temp	0.38 @ 76					
Rmc @ Meas. Temp	0.68 @ 76					
Source of Rmf / Rmc	CHARTS					
Rm @ BHT	0.32 @ 119					
Operating Rig Time	3 HOURS					
Max Rec. Temp. F	119					
Equipment Number	91					
Location	COLBY					
Recorded By	D. SCHMIDT					
Witnessed By	PAT DEENIHAN					

<<< 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.

MCCRACKEN,
FROM SOUTH END, 3 1/2 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

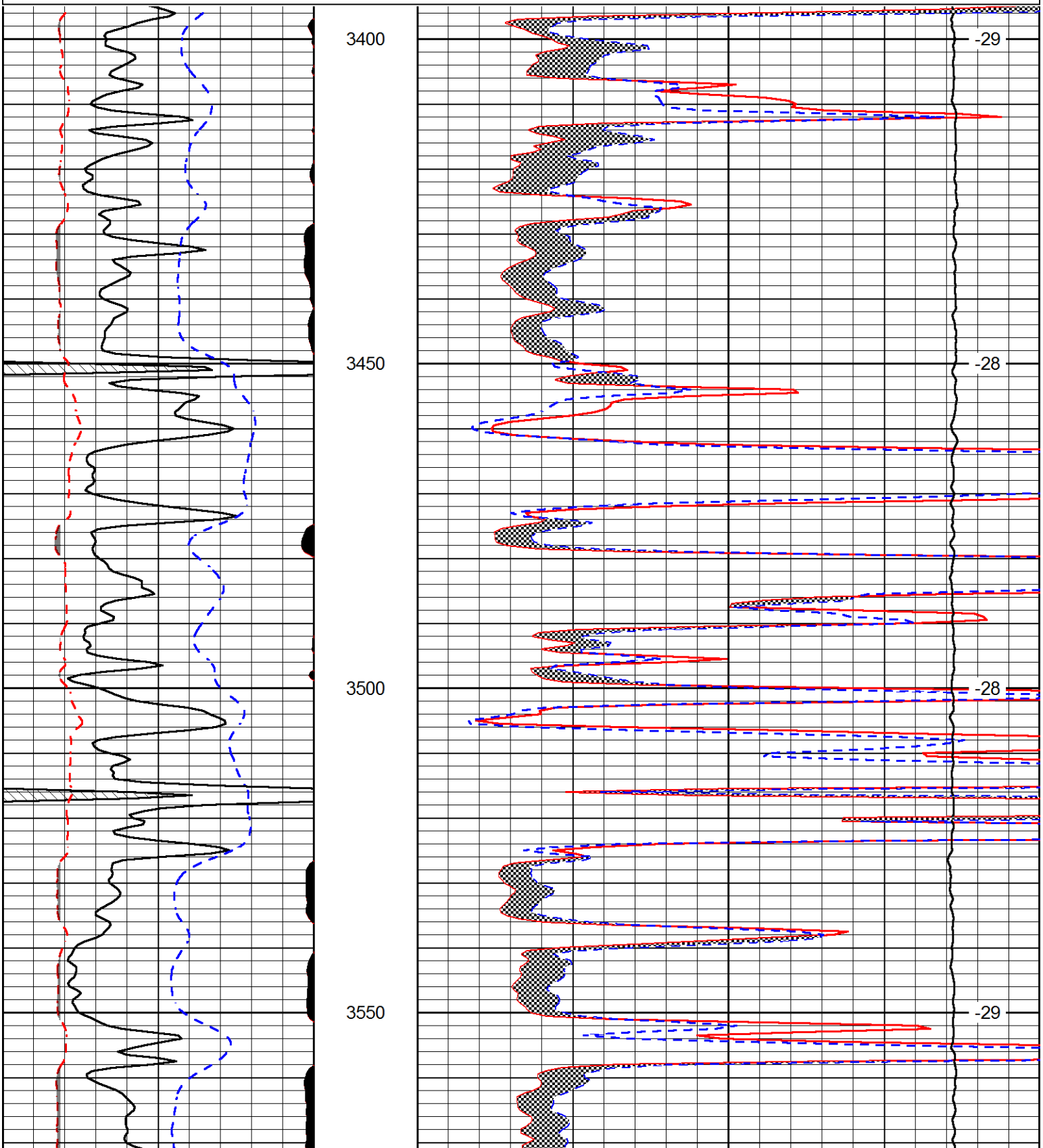
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

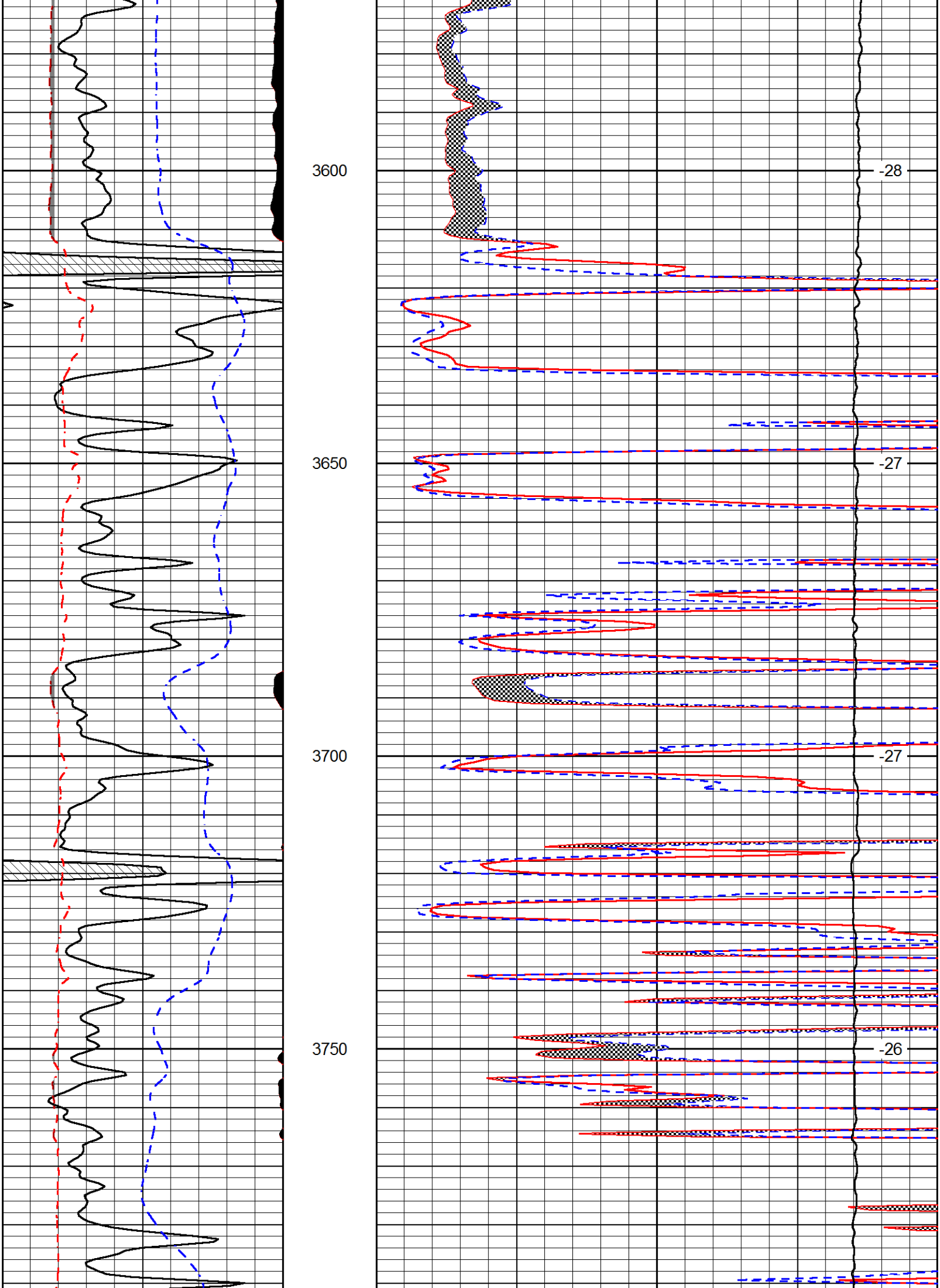
Database File	mike kelso_fhw-wierman_15-1hd.db
Dataset Pathname	DIL/mkstkml
Presentation Format	micro
Dataset Creation	Thu Sep 29 21:51:59 2016
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD (ft/min)

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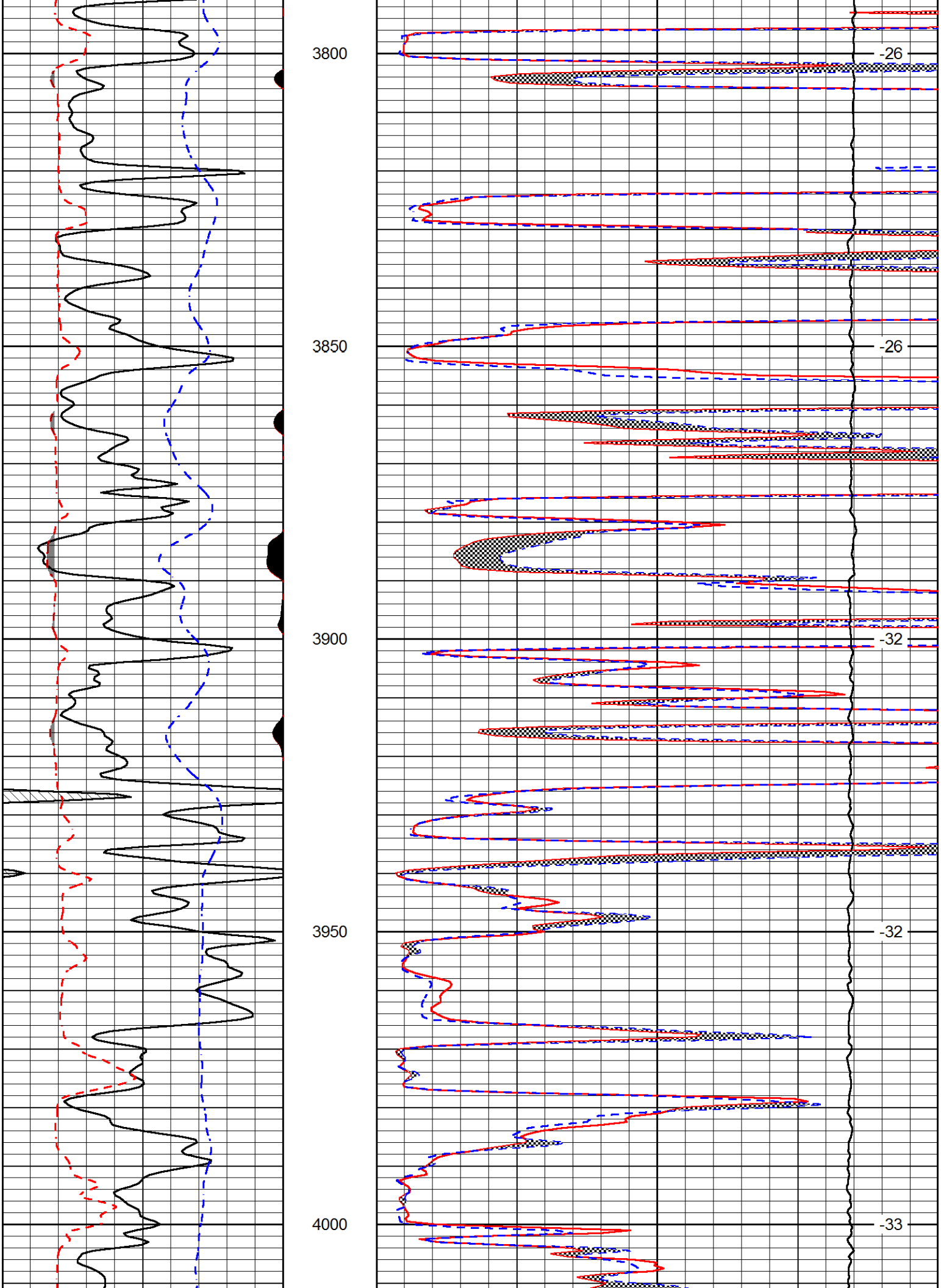
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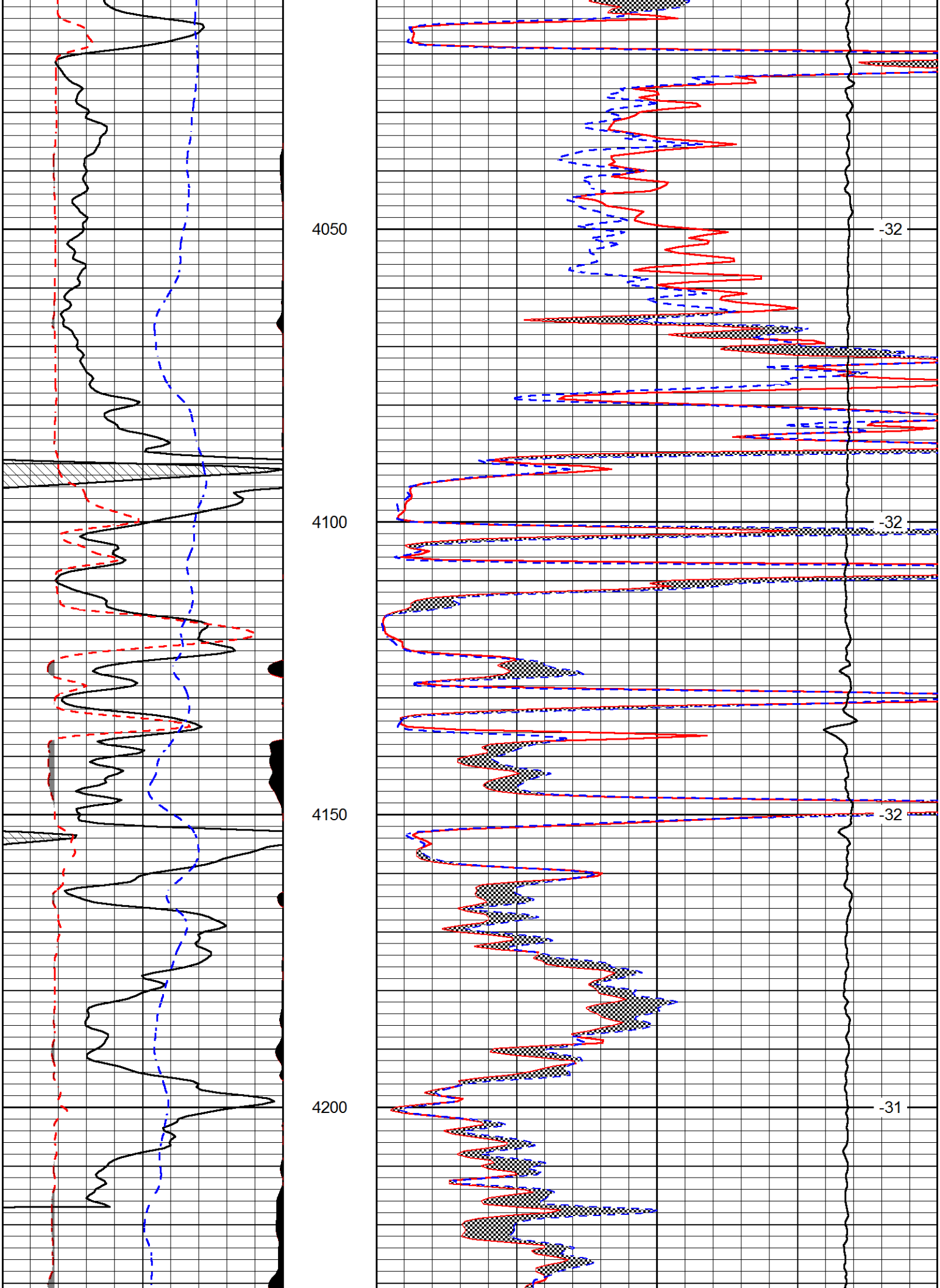
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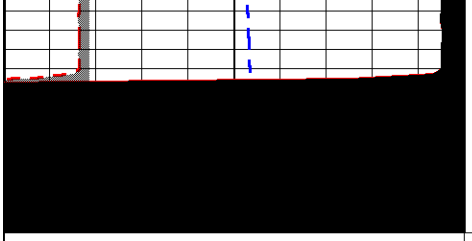
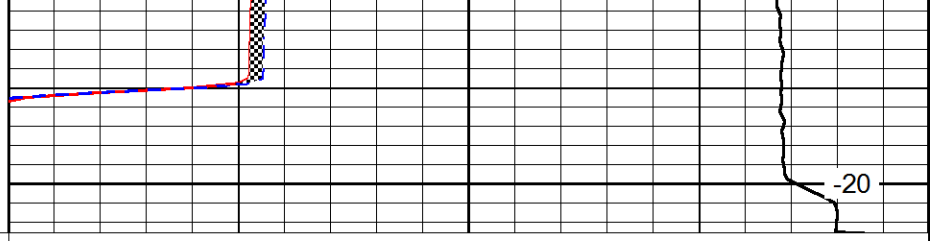




4250

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)

COPELAND
Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 9/20/2016 District G.B. F.O. No. C44264

Company Mike Kelso Oil

Well Name & No. FHW Wierman 15-1

Location 15-17-21 Field _____

County Ness State KS

Casing: Size 8 5/8" Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment 327

Personnel Nathan-Mike-Greg-Aron

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative Mike K. **Treater** Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
1:45		8 5/8"		On Location.
				Hole-325'
				Pipe-325'
				Break circulation with mud pump.
				Mix 250sks 60/40poz 2% Gel 3% Calcium Chloride.
4:30				Displace with 19bbls at 4bpm-200# Circulated cement to surface.
				Thank You!
				Nathan W.

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date: 9/30/2016 District: G.B. F.O. No. C44272

Company: Mike Kelso Oil

Well Name & No. Wierman 15-1

Location: _____ Field: _____

County: Ness State: KS

Casing: Size _____ Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from: _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Breakdown	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
	_____ Bbl./Gal.			
Flush	_____ Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks: No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment 165/308

Personnel Nathan-Jordan-Aaron

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative _____ Treater Nathan W.

TIME a.m./p.m.	PRESSURES Tubing	PRESSURES Casing	Total Fluid Pumped	REMARKS
12:45				On Location. Rig laying down pipe.
				Mix 50sks 60/40poz 4%gel .25#/sk Flow-Seal at 1530'.
				Mix 80sks at 800'
				Mix 50sks at 360'
				Mix 20sks at 60'. Circulated cement to surface.
				Plug Rat Hole with 30sks.
				Thank You!
				Nathan W.

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.28 @ 00:00:00
End Date:
Job Ticket #: 63480 DST #: 1

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

Printed: 2016.09.29 @ 13:50:48

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63480 DST#: 1

Test Start: 2016.09.28 @ 00:00:00

GENERAL INFORMATION:

Formation: Cherokee Sand 'A'
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:55:30
Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J. Staab
Unit No: 84

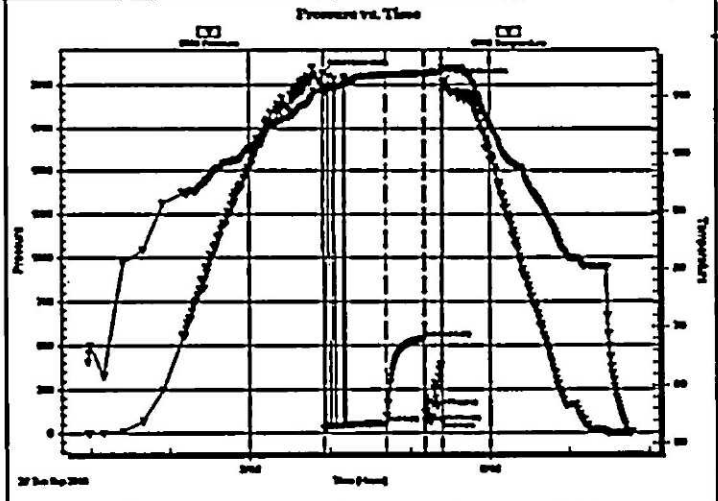
Interval: 4086.00 ft (KB) To 4131.00 ft (KB) (TVD)
Total Depth: 4131.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: 54.39 psig @ 4088.00 ft (KB)
Start Date: 2016.09.27 End Date: 2016.09.27
Start Time: 00:58:15 End Time: 07:47:15

Capacity: 8000.00 psig
Last Calb.: 2016.09.27
Time On Btm: 2016.09.27 @ 03:55:15
Time Off Btm: 2016.09.27 @ 05:24:45

TEST COMMENT: IFP 30 Weak blow built to 1 3/4":
ISI 30 No Blow
FFP 5 No blow - pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.67	110.95	Initial Hydro-static
1	26.69	110.46	Open To Flow (1)
47	54.39	113.68	Shut-In(1)
75	537.54	113.83	End Shut-In(1)
76	115.09	113.70	Tool Plugging
76	59.54	113.77	Open To Flow (2)
89	62.80	114.10	Shut-In(2)
90	2015.37	114.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M 100% M with oil specs	0.50

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63480 DST#: 1

Test Start: 2016.09.28 @ 00:00:00

GENERAL INFORMATION:

Formation: Cherokee Sand 'A'
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:55:30
Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J. Staab
Unit No: 84

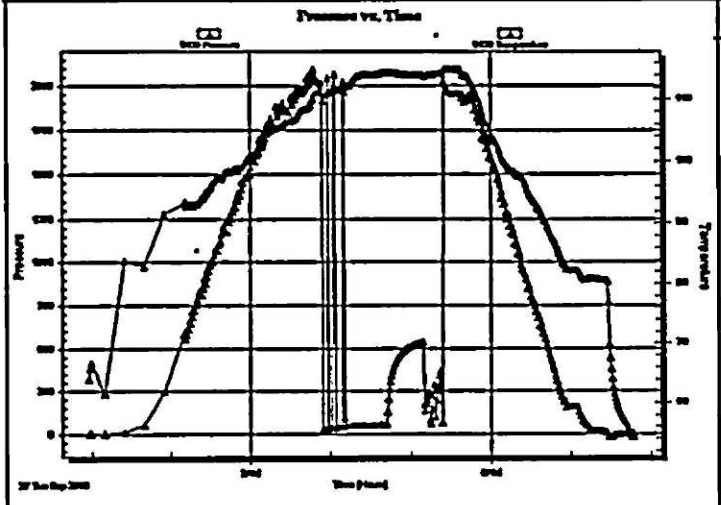
Interval: 4086.00 ft (KB) To 4131.00 ft (KB) (TVD)
Total Depth: 4131.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside
Press@RunDepth: psig @ 4088.00 ft (KB)
Start Date: 2016.09.27 End Date: 2016.09.27
Start Time: 00:58:15 End Time: 07:47:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP 30 Weak blow built to 1 3/4":
ISI 30 No Blow
FFP 5 No blow - pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M 100% M with oil specs	0.50

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63480 **DST#: 1**

Test Start: 2016.09.28 @ 00:00:00

Tool Information

Drill Pipe:	Length:	3628.00 ft	Diameter:	3.82 inches	Volume:	51.43 bbl	
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	54.69 bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	4086.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	45.00 ft
Tool Length:	73.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	51000.00 lb
Tool Chased	ft
String Weight: Initial	48000.00 lb
Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4059.00		
Shut In Tool	5.00			4064.00		
Hydraulic tool	5.00			4069.00		
Jars	5.00			4074.00		
Safety Joint	3.00			4077.00		
Packer	5.00			4082.00	28.00	Bottom Of Top Packer
Packer	4.00			4086.00		
Stubb	1.00			4087.00		
Perforations	1.00			4088.00		
Recorder	0.00	9120	Outside	4088.00		
Recorder	0.00	8938	Inside	4088.00		
Perforations	5.00			4093.00		
Change Over Sub	1.00			4094.00		
Drill Pipe	32.00			4126.00		
Change Over Sub	1.00			4127.00		
Bullnose	4.00			4131.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**73.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63480 **DST#:1**

Test Start: 2016.09.28 @ 00:00:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	4000.00 ohm m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

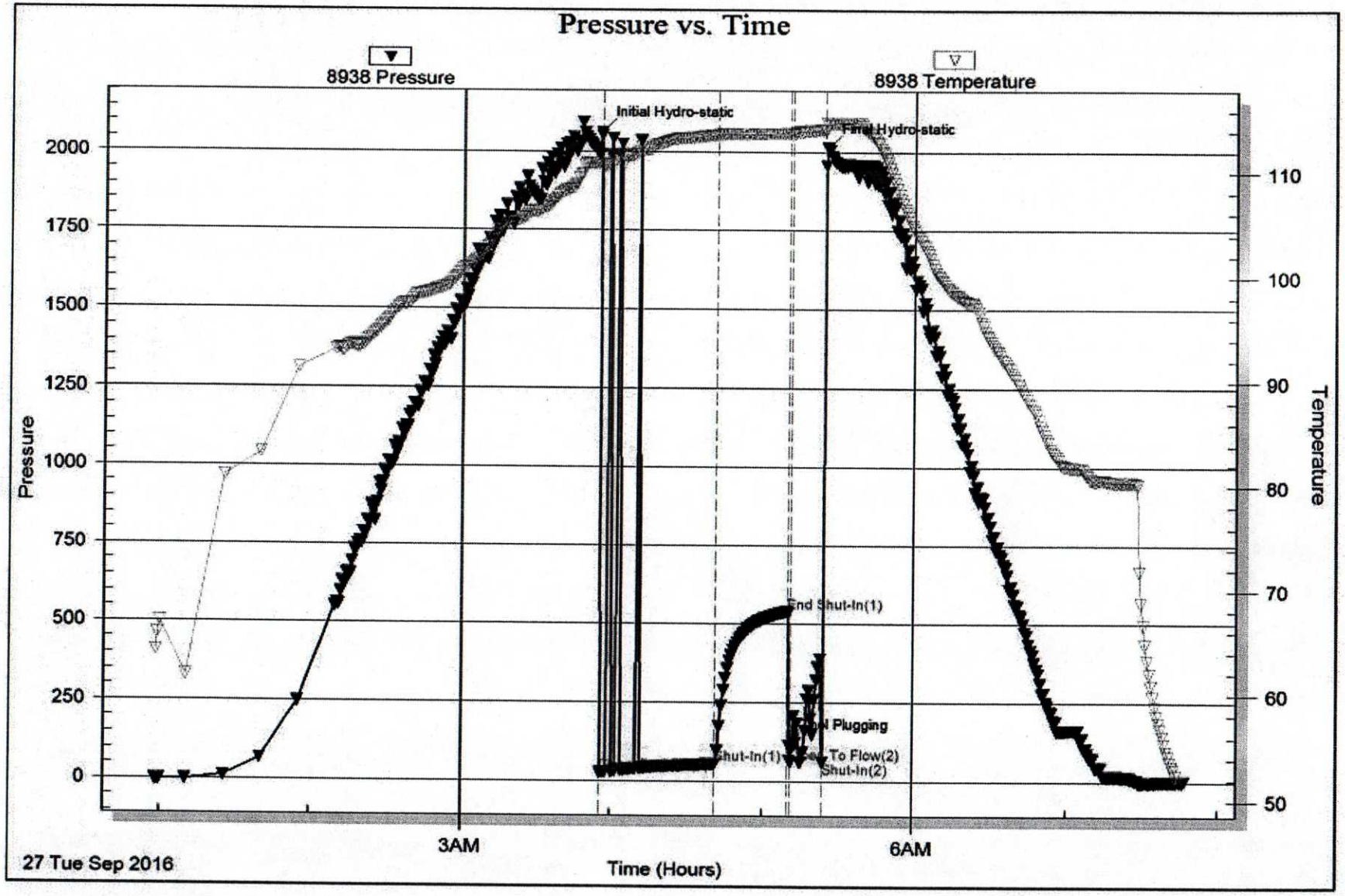
Recovery Table

Length ft	Description	Volume bbl
70.00	M 100% Mw ith oil specs	0.496

Total Length: 70.00 ft Total Volume: 0.496 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 Inside Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 1



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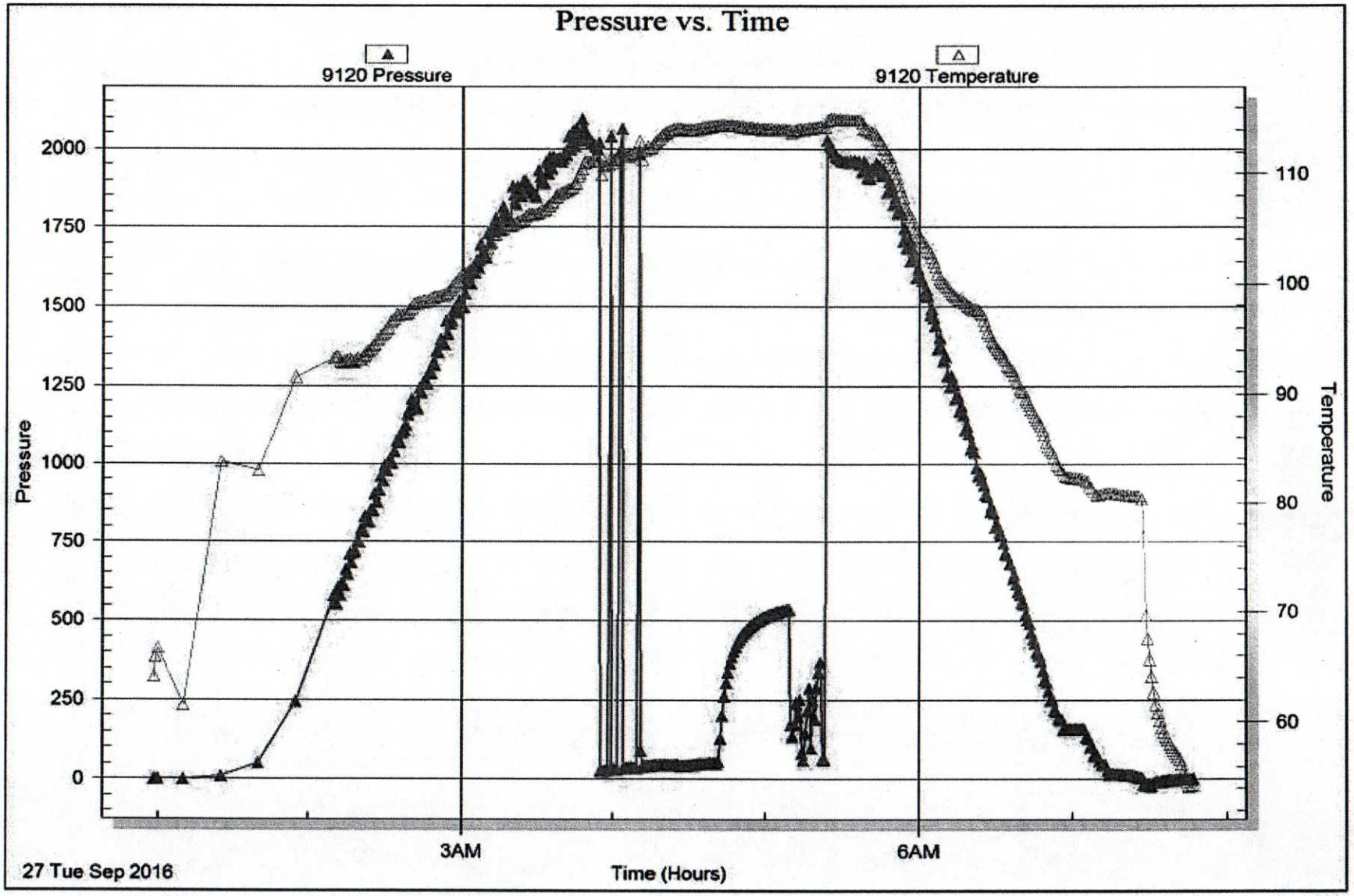


Trilobite Testing, Inc Ref. No: 63480 Printed: 2016.09.29 @ 13:50:50

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63480

Well Name & No. F.H.W - Wierman #15-1 Test No. 1 Date 09/26/2016

Company Mike Kelso Oil Inc Elevation 2210 KB GL

Address PO BOX 467

Co. Rep / Geo. Mike KASO Rig Skytop Rig #1

Location: Sec. 15 Twp. 17 Rge. 21 Co. Ness State KS

Interval Tested 4086 - 4131 Zone Tested Cherokee Sand 'A'

Anchor Length 45 Drill Pipe Run 3628 Mud Wt. 9.3

Top Packer Depth 4081 Drill Collars Run — Vis 50

Bottom Packer Depth 4086 Wt. Pipe Run 460 WL 9.2

Total Depth 4131 Chlorides 4000 ppm System LCM 1#

Blow Description IF - Weak Blow; Built to 1 3/4 inch

ISI - No Blow

FF - NO Blow; pulled tool

FSI — — —

Rec 70	Feet of [redacted] M w/oil Specs	%gas	%oil	[redacted]	%water 100	%mud
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 70 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

A) Initial Hydrostatic 2065	☒ Test 1150	T-On Location 23:50	
B) First Initial Flow 27	☒ Jars 250	T-Started 00:58 09/27/2016	
C) First Final Flow 54	☒ Safety Joint 75	T-Open 4:10	
D) Initial Shut-In 538	☐ Circ Sub	T-Pulled 5:16	
E) Second Initial Flow 66	☐ Hourly Standby	T-Out 7:47	
F) Second Final Flow —	☒ Mileage 84 RT 63	Comments	
G) Final Shut-In —	☐ Sampler		
H) Final Hydrostatic 2015	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 5 ↑	☐ Day Standby	Total 1538	
Final Shut-In —	☐ Accessibility	MP/DST Disc't	
	Sub Total 1538		

Approved By Our Representative Spencer J. Stout

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.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.27 @ 18:08:00
End Date: 2016.09.28 @ 00:00:00
Job Ticket #: 63481 DST #: 2

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

Printed: 2016.09.29 @ 13:50:20

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63481 DST#:2

Test Start: 2016.09.27 @ 18:08:00

GENERAL INFORMATION:

Formation: Cherokee Sand 'B'
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

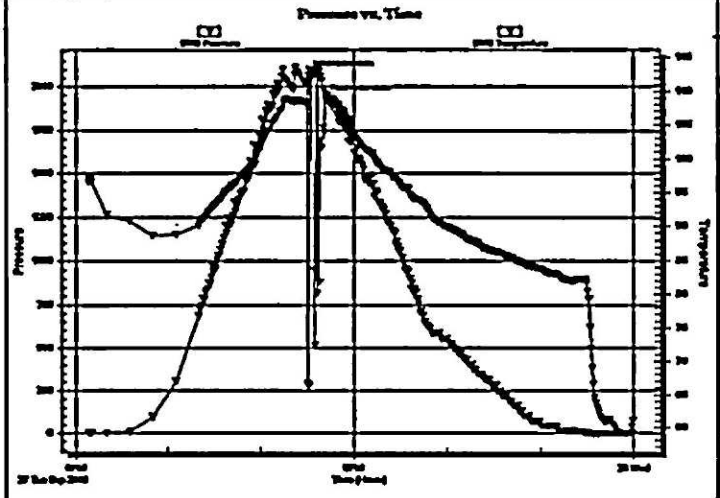
Interval: 4118.00 ft (KB) To 4148.00 ft (KB) (TVD)
Total Depth: 4148.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: psig @ 4123.00 ft (KB)
Start Date: 2016.09.27 End Date: 2016.09.28
Start Time: 18:08:15 End Time: 00:00:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm: 2016.09.27 @ 20:30:15
Time Off Btm: 2016.09.27 @ 20:41:30

TEST COMMENT: IFP - Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.88	108.34	Initial Hydro-static
12	1929.97	109.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	M 100% M with oil specs in tool	13.75

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63481 DST#: 2

Test Start: 2016.09.27 @ 18:08:00

GENERAL INFORMATION:

Formation: Cherokee Sand 'B'
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

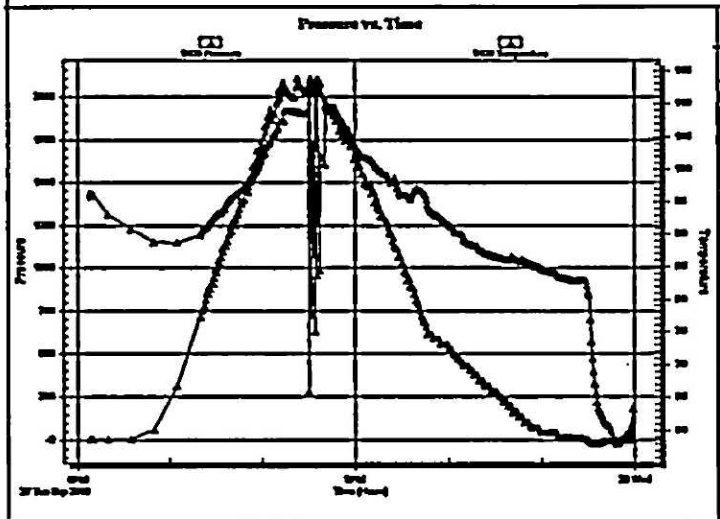
Interval: 4118.00 ft (KB) To 4148.00 ft (KB) (TVD)
Total Depth: 4148.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside
Press@RunDepth: psig @ 4123.00 ft (KB)
Start Date: 2016.09.27 End Date: 2016.09.27
Start Time: 18:08:15 End Time: 23:59:30

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1200.00	M 100% M with oil specs in tool	13.75

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63481 **DST#: 2**

Test Start: 2016.09.27 @ 18:08:00

Tool Information

Drill Pipe:	Length:	3688.00 ft	Diameter:	3.82 inches	Volume:	52.28 bbl	
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	55.54 bbl	

Drill Pipe Above KB:	54.00 ft
Depth to Top Packer:	4118.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	34.00 ft
Tool Length:	58.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	ft
String Weight: Initial	50000.00 lb
Final	54000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4095.00		
Shut In Tool	5.00			4100.00		
Hydraulic tool	5.00			4105.00		
Jars	5.00			4110.00		
Safety Joint	3.00			4113.00		
Packer	5.00			4118.00	24.00	Bottom Of Top Packer
Packer - Shale	4.00			4122.00		
Stubb	1.00			4123.00		
Recorder	0.00	9120	Outside	4123.00		
Recorder	0.00	8938	Inside	4123.00		
Perforations	25.00			4148.00		
Bullnose	4.00			4152.00	34.00	Anchor Tool
Total Tool Length:	**58.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63481 DST#: 2

Test Start: 2016.09.27 @ 18:08:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	4000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

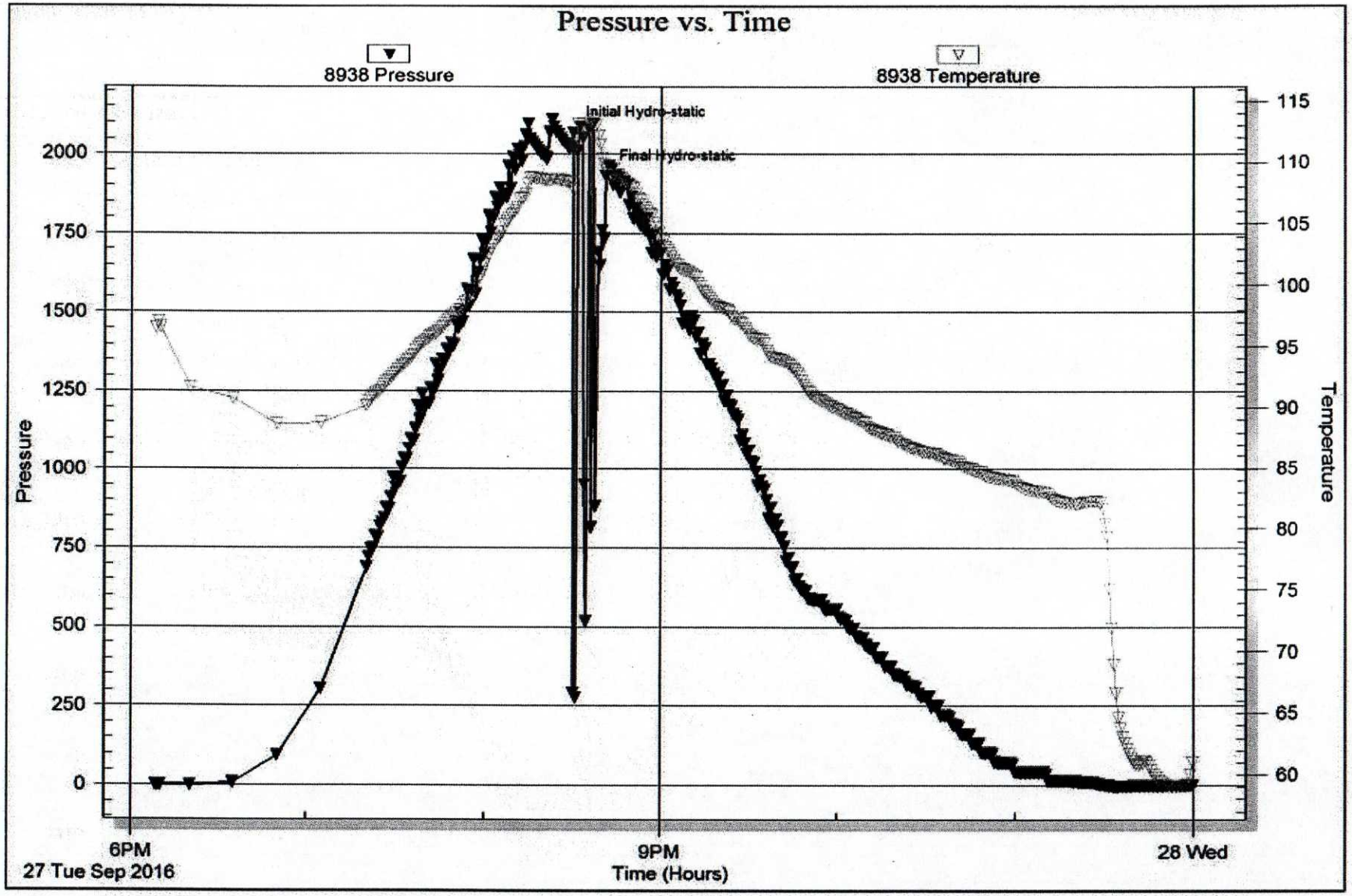
Recovery Table

Length ft	Description	Volume bbl
1200.00	M 100% Mw ith oil specs in tool	13.747

Total Length: 1200.00 ft Total Volume: 13.747 bbl

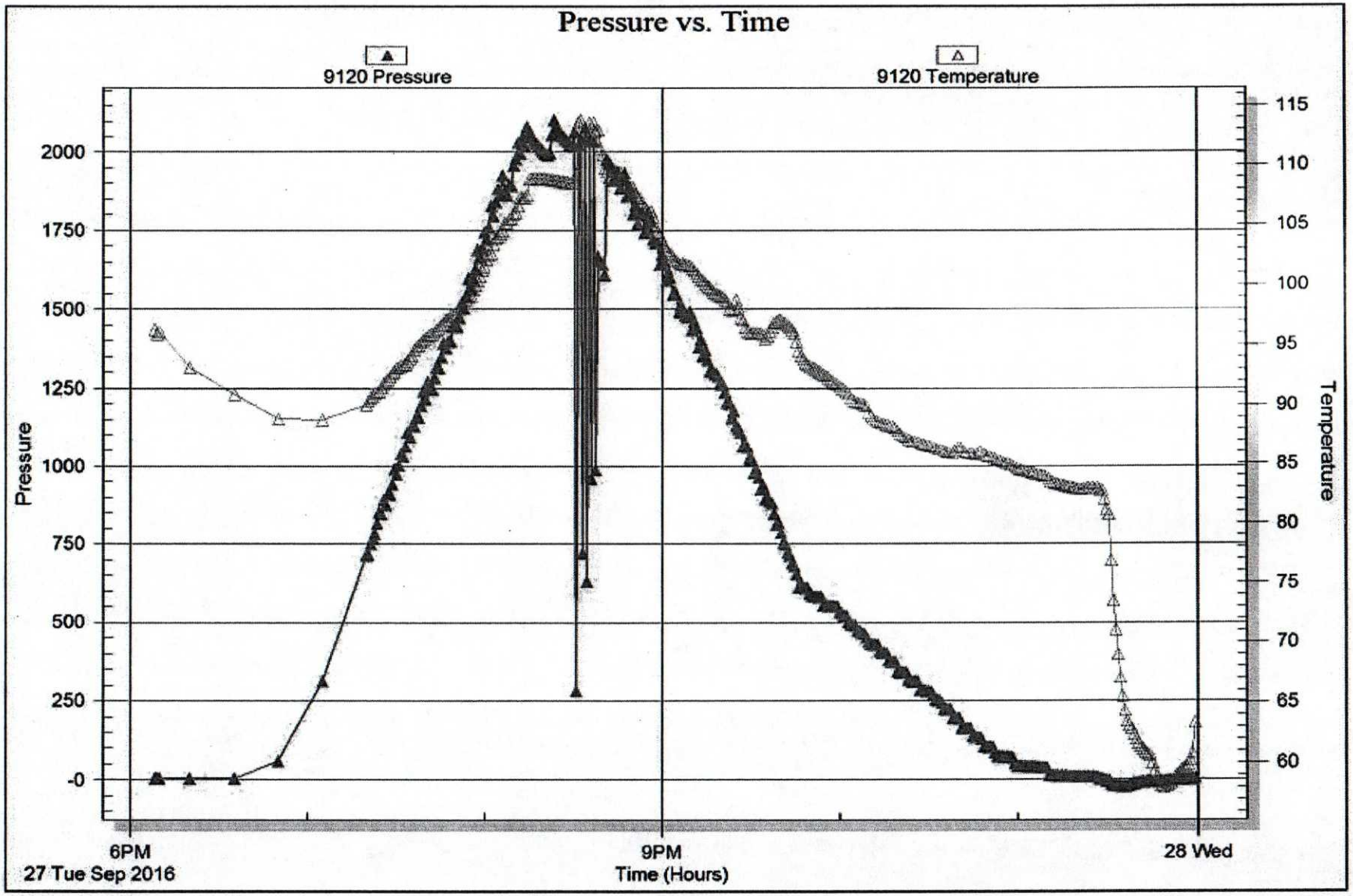
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 Inside Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63481 Printed: 2016.09.29 @ 13:50:21

Serial #: 9120 **Outside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63481 Printed: 2016.09.29 @ 13:50:21

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63481

Well Name & No. F.H.W. - Wierman #15-1 Test No. 2 Date 09/26/2016

Company Mike Kelso Oil Inc Elevation 2210 KB 2205 GL

Address PO BOX 467 Chase KS 67524+0467

Co. Rep / Geo. Sean D / Mike Kelso Rig Skytop #1

Location: Sec. 15 Twp. 17 Rge. 21 Co. Ness State KS

Interval Tested 4118 - 4148 Zone Tested Cherokee Sand 'B'

Anchor Length 30 Drill Pipe Run 3688 Mud Wt. 9.4

Top Packer Depth 4113 Drill Collars Run — Vis 49

Bottom Packer Depth 4118 Wt. Pipe Run 460 WL 9.2

Total Depth 4148 Chlorides 4000 ppm System LCM 1#

Blow Description IF - Packer failure

ISI —

FF —

FSI —

Rec 1200	Feet of Mud	%gas	%oil	%water 100	%mud	
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 1200 BHT 113° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2069

(B) First Initial Flow —

(C) First Final Flow —

(D) Initial Shut-In —

(E) Second Initial Flow —

(F) Second Final Flow —

(G) Final Shut-In —

(H) Final Hydrostatic 1930

Initial Open Packer Failure

Initial Shut-In —

Final Flow —

Final Shut-In —

- [X] Test 950
- [X] Jars 250
- [X] Safety Joint 75
- [ ] Circ Sub
- [ ] Hourly Standby
- [X] Mileage 84 RT 63
- [ ] Sampler
- [ ] Straddle
- [X] Shale Packer 250
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 1588

T-On Location 15:25

T-Started 18:08

T-Open 20:10

T-Pulled 20:15

T-Out 00:00 09/28/2016

Comments tried resetting packer 5 times

- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

Sub Total 0

Total 1588

MP/DST Disc't

Approved By Our Representative Spencer J. Finch

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.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.28 @ 08:07:00
End Date: 2016.09.28 @ 15:49:00
Job Ticket #: 63482 DST #: 3

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

Printed: 2016.09.29 @ 13:49:15

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 DST#:3

Test Start: 2016.09.28 @ 08:07:00

GENERAL INFORMATION:

Formation: Cherokee Sands 'A' a
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:53:15
Time Test Ended: 15:49:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

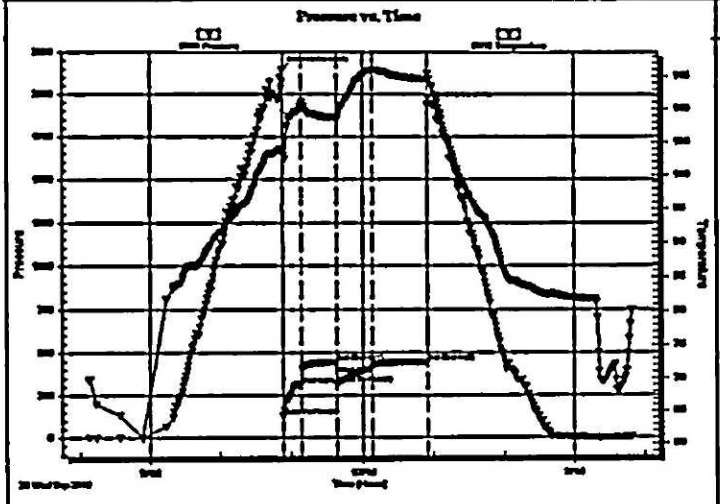
Interval: 4083.00 ft (KB) To 4148.00 ft (KB) (TVD)
Total Depth: 4148.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: 422.42 psig @ 4153.00 ft (KB)
Start Date: 2016.09.28 End Date: 2016.09.28
Start Time: 08:07:15 End Time: 15:49:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm: 2016.09.28 @ 10:53:00
Time Off Btm: 2016.09.28 @ 12:54:45

TEST COMMENT: 15-IF- BOB in 3 Minutes
30-ISI-Weak Surface Blow; Built to 1/2" died
30-FF-BOB in 9 Minutes; blow died at 29 minute mark
45-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.38	103.67	Initial Hydro-static
1	131.01	103.03	Open To Flow (1)
16	312.41	111.08	Shut-In(1)
45	446.70	108.81	End Shut-In(1)
46	315.67	108.58	Open To Flow (2)
76	422.42	116.08	Shut-In(2)
122	446.85	114.65	End Shut-In(2)
122	1934.35	115.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Mud w/ few spots oil	1.42
400.00	MCW 30% M 70%W	3.83
300.00	Water	4.25

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 DST#:3

Test Start: 2016.09.28 @ 08:07:00

GENERAL INFORMATION:

Formation: Cherokee Sands 'A' a
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:53:15
Time Test Ended: 15:49:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

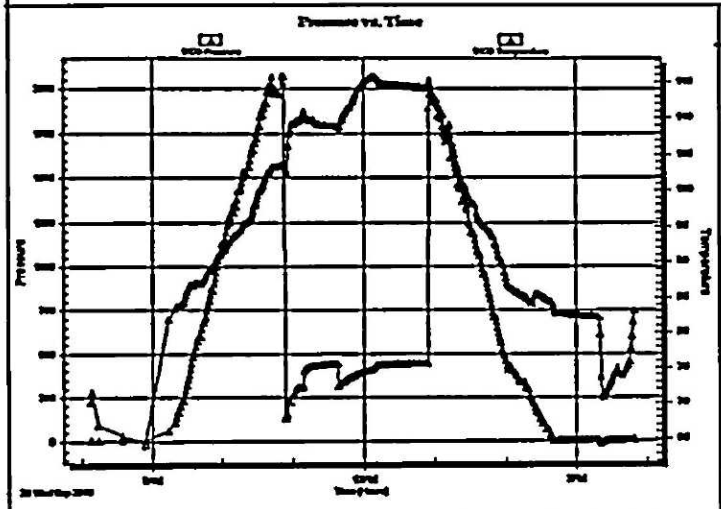
Interval: 4083.00 ft (KB) To 4148.00 ft (KB) (TVD)
Total Depth: 4148.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside
Press@RunDepth: psig @ 4153.00 ft (KB)
Start Date: 2016.09.28 End Date: 2016.09.28
Start Time: 08:07:15 End Time: 15:49:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF- BOB in 3 Minutes
30-ISI-Weak Surface Blow; Built to 1/2" died
30-FF-BOB in 9 Minutes; blow died at 29 minute mark
45-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Mud w/ few spots oil	1.42
400.00	MCW 30% M 70%W	3.83
300.00	Water	4.25

*Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 **DST#: 3**

Test Start: 2016.09.28 @ 08:07:00

Tool Information

Drill Pipe:	Length:	3688.00 ft	Diameter:	3.82 inches	Volume:	52.28 bbl	
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	55.54 bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	4148.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	69.00 ft
Tool Length:	93.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	82000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	50000.00 lb
Final	56000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4125.00		
Shut In Tool	5.00			4130.00		
Hydraulic tool	5.00			4135.00		
Jars	5.00			4140.00		
Safety Joint	3.00			4143.00		
Packer	5.00			4148.00	24.00	Bottom Of Top Packer
Packer - Shale	4.00			4152.00		
Stubb	1.00			4153.00		
Recorder	0.00	9120	Outside	4153.00		
Recorder	0.00	8938	Inside	4153.00		
Perforations	25.00			4178.00		
Change Over Sub	1.00			4179.00		
Drill Pipe	32.00			4211.00		
Change Over Sub	1.00			4212.00		
Perforations	1.00			4213.00		
Bullnose	4.00			4217.00	69.00	Anchor Tool
Total Tool Length:	**93.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 DST#:3

Test Start: 2016.09.28 @ 08:07:00

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:	5700 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

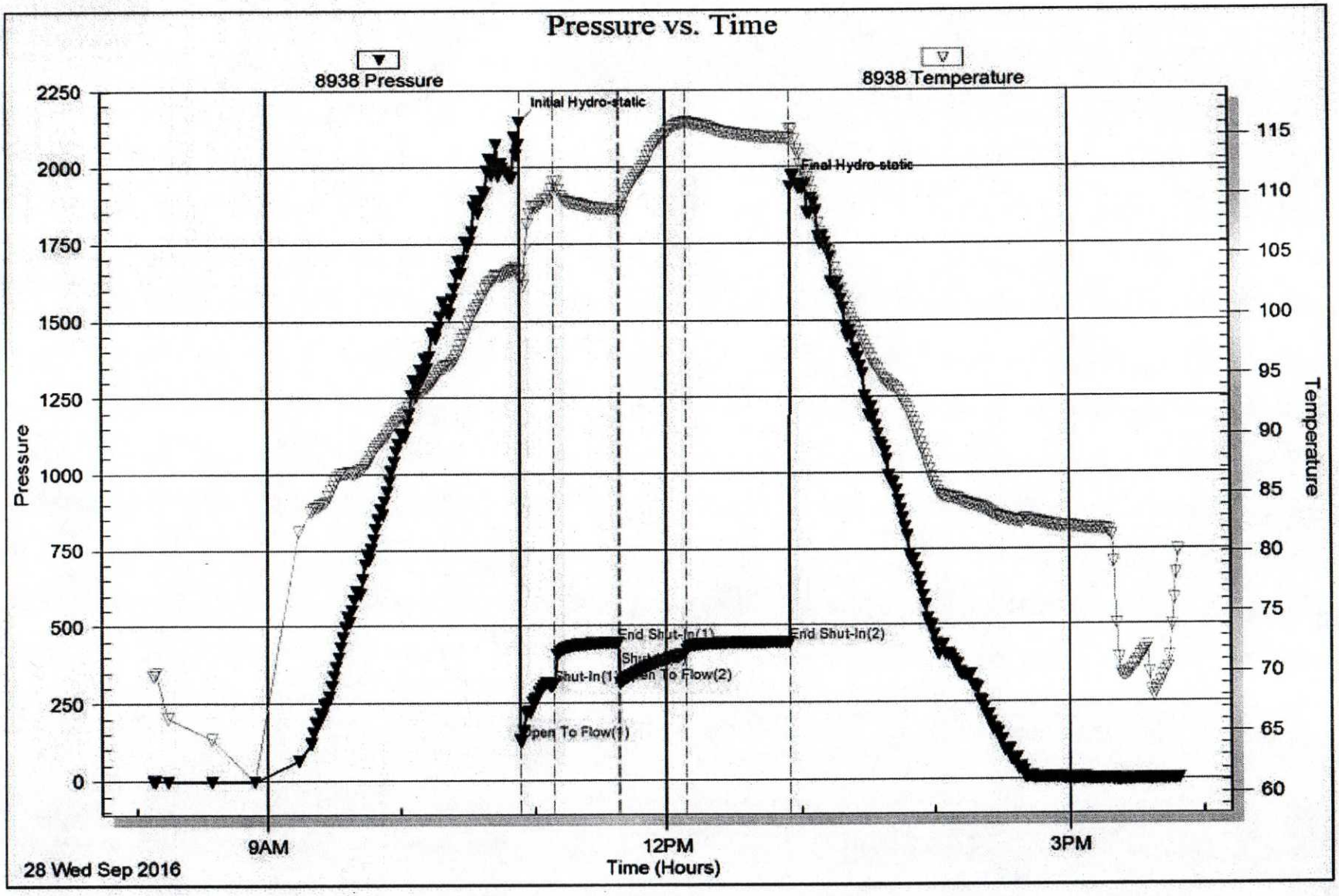
Recovery Table

Length ft	Description	Volume bbl
200.00	Mud w/ few spots oil	1.416
400.00	MCW 30% M 70%W	3.826
300.00	Water	4.253

Total Length: 900.00 ft Total Volume: 9.495 bbl

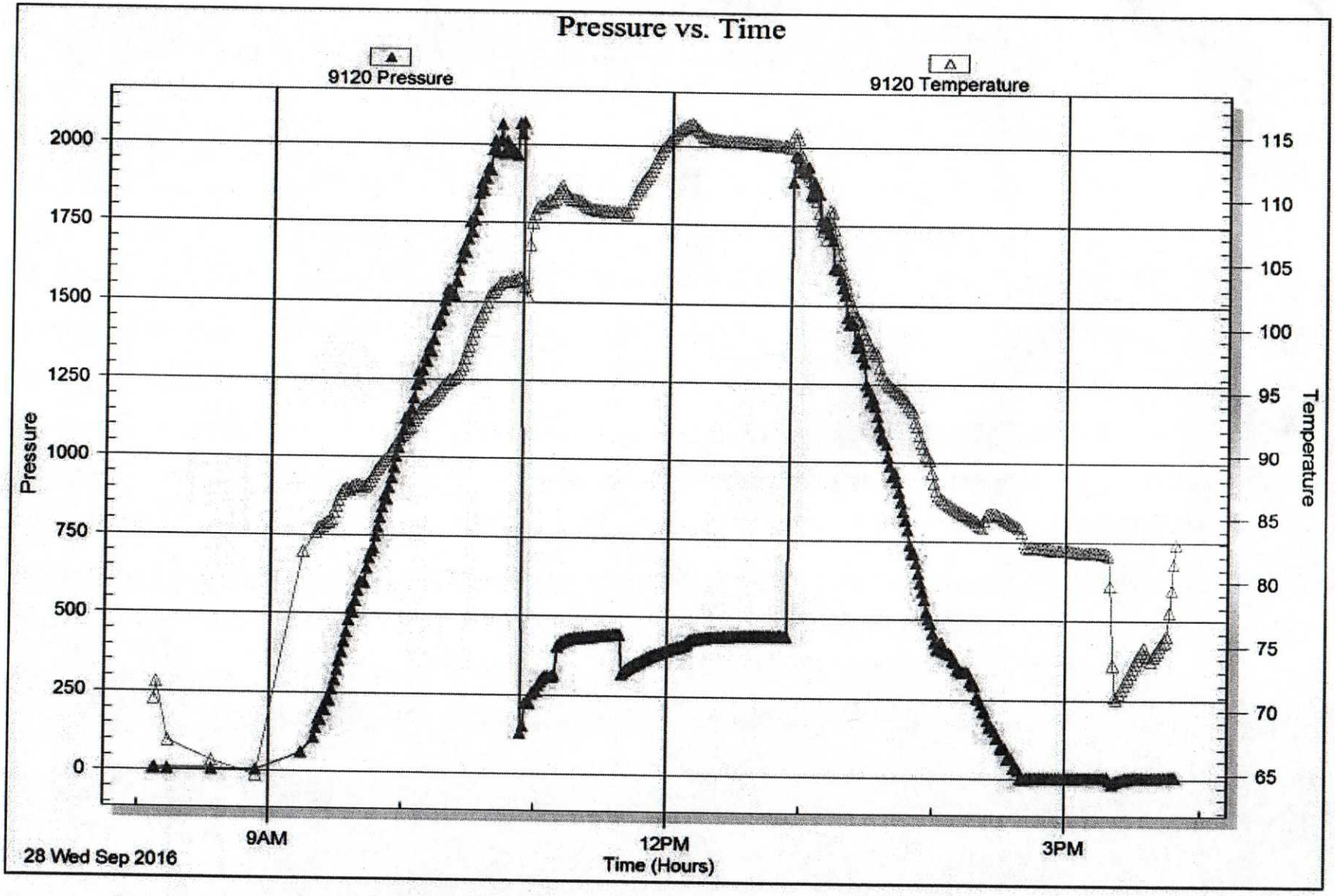
Num Fluid Samples: 0 . Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 **Inside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63482 Printed: 2016.09.29 @ 13:49:16

Serial #: 9120 **Outside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63482 Printed: 2016.09.29 @ 13:49:17

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63482

Well Name & No. F.H.W.-Wiesman #15-1 Test No. 3 Date 09/28/2016
Company Mike Kelso Oil Inc Elevation 2210 KB 2203 GL
Address PO BOX 467 Chase KS 67524 +0467
Co. Rep / Geo. Pat Dennihan/Sean Dennihan/Mike Kelso Rig Skytop #1
Location: Sec. 15 Twp. 17S Rge. 21W Co. Ness State KS

Interval Tested 4083-4148 Zone Tested Cherokee Sands 'A' and 'B'
Anchor Length 65 Drill Pipe Run 3688 Mud Wt. 9.4
Top Packer Depth 4078 Drill Collars Run — Vis 59
Bottom Packer Depth 4083 Wt. Pipe Run 460 WL 8.8
Total Depth 4148 Chlorides 4000 ppm System LCM 2#

Blow Description IF - BOB in 3 minutes
ISI - Weak Surface Blow; built to ½ inch; died
FF - BOB in 9 minutes; Blow died @ 29 min mark
FSI - No Blow

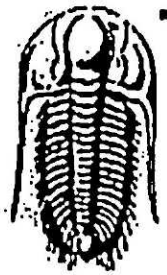
Rec 200	Feet of Mud w/ oil spots	%gas	%oil	%water	100	%mud
Rec 400	Feet of MCW	%gas	%oil	70 %water	30	%mud
Rec 300	Feet of Water	%gas	%oil	100 %water		%mud
Rec	Feet of	%gas	%oil	%water		%mud
Rec	Feet of	%gas	%oil	%water		%mud

Rec Total 900 BHT 115° Gravity — API RW .8 @ 90 °F Chlorides 5700 ppm

(A) Initial Hydrostatic	2144	☒ Test	1050	T-On Location	06:23
(B) First Initial Flow	131	☒ Jars	250	T-Started	08:07
(C) First Final Flow	312	☒ Safety Joint	75	T-Open	10:53
(D) Initial Shut-In	446	☐ Circ Sub		T-Pulled	12:53
(E) Second Initial Flow	315	☐ Hourly Standby		T-Out	15:48
(F) Second Final Flow	422	☒ Mileage	84 RT	Comments	
(G) Final Shut-In	446	☐ Sampler			
(H) Final Hydrostatic	1934	☐ Straddle		☐ Ruined Shale Packer	
		☒ Shale Packer	250	☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1788
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1788		

Approved By _____ Our Representative Spencer J. Strait

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.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.29 @ 02:50:00
End Date: 2016.09.29 @ 10:17:30
Job Ticket #: 63483 DST #: 4

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

Printed: 2016.09.29 @ 13:47:40

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63483 DST#:4

Test Start: 2016.09.29 @ 02:50:00

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No Whipstock ft (KB)
Time Tool Opened: 06:09:45
Time Test Ended: 10:17:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

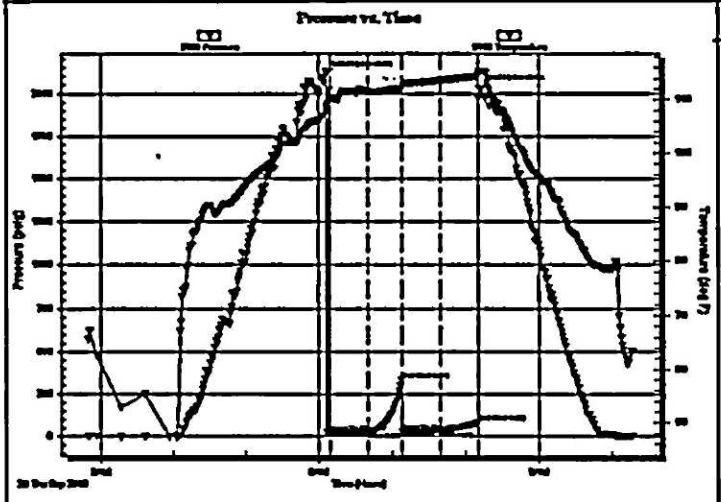
Interval: 4174.00 ft (KB) To 4200.00 ft (KB) (TVD)
Total Depth: 42000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: 34.94 psig @ 4179.00 ft (KB)
Start Date: 2016.09.29 End Date: 2016.09.29
Start Time: 02:50:15 End Time: 10:17:30

Capacity: 8000.00 psig
Last Calib.: 2016.09.29
Time On Btm: 2016.09.29 @ 06:06:15
Time Off Btm: 2016.09.29 @ 08:11:15

TEST COMMENT: 30-IF-Weak Surface Blow; died after 30 seconds, flushed tool, same result
30-ISI-No Blow
30-FF-No Blow
30-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.49	108.49	Initial Hydro-static
4	26.41	110.24	Open To Flow (1)
34	28.21	111.62	Shut-In(1)
62	331.75	112.23	End Shut-In(1)
62	30.57	112.20	Open To Flow (2)
94	34.94	113.67	Shut-In(2)
124	83.42	114.46	End Shut-In(2)
125	2031.61	115.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 15% O 85% M	0.21

*Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63483 DST#:4

Test Start: 2016.09.29 @ 02:50:00

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:09:45
Time Test Ended: 10:17:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

Interval: 4174.00 ft (KB) To 4200.00 ft (KB) (TVD)
Total Depth: 42000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

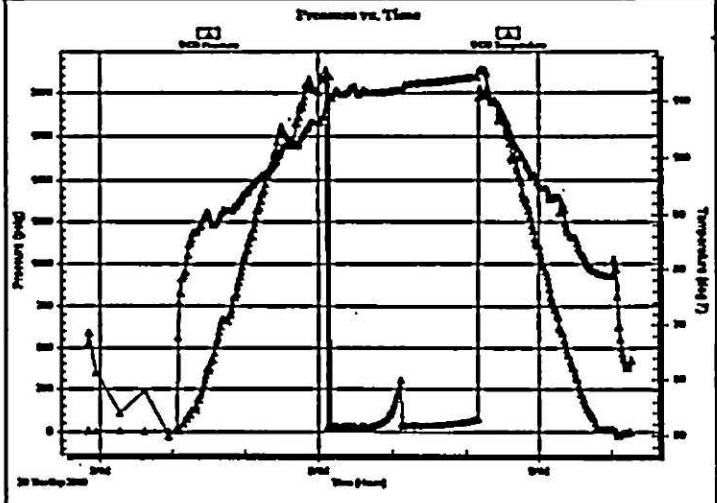
Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside

Press@RunDepth: psig @ 4179.00 ft (KB)
Start Date: 2016.09.29 End Date: 2016.09.29
Start Time: 02:50:15 End Time: 10:16:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak Surface Blow; died after 30 seconds, flushed tool, same result
30-ISI-No Blow
30-FF-No Blow
30-FSI-No Blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 15% O 85% M	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63483 DST#:4

Test Start: 2016.09.29 @ 02:50:00

Tool Information

Drill Pipe:	Length:	3718.00 ft	Diameter:	3.82 inches	Volume:	52.70 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	51000.00 lb
					Total Volume:	55.96 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	49000.00 lb
Depth to Top Packer:		4174.00 ft					Final	49000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		54.00 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			4151.00		
Shut In Tool	5.00			4156.00		
Hydraulic tool	5.00			4161.00		
Jars	5.00			4166.00		
Safety Joint	3.00			4169.00		
Packer	5.00			4174.00	24.00	Bottom Of Top Packer
Packer - Shale	4.00			4178.00		
Stubb	1.00			4179.00		
Recorder	0.00	9120	Outside	4179.00		
Recorder	0.00	8938	Inside	4179.00		
Perforations	21.00			4200.00		
Bullnose	4.00			4204.00	30.00	Anchor Tool
Total Tool Length:	**54.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63483 DST#: 4

Test Start: 2016.09.29 @ 02:50:00

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	40000.00 ppm				
Filter Cake:	inches				

Recovery Information

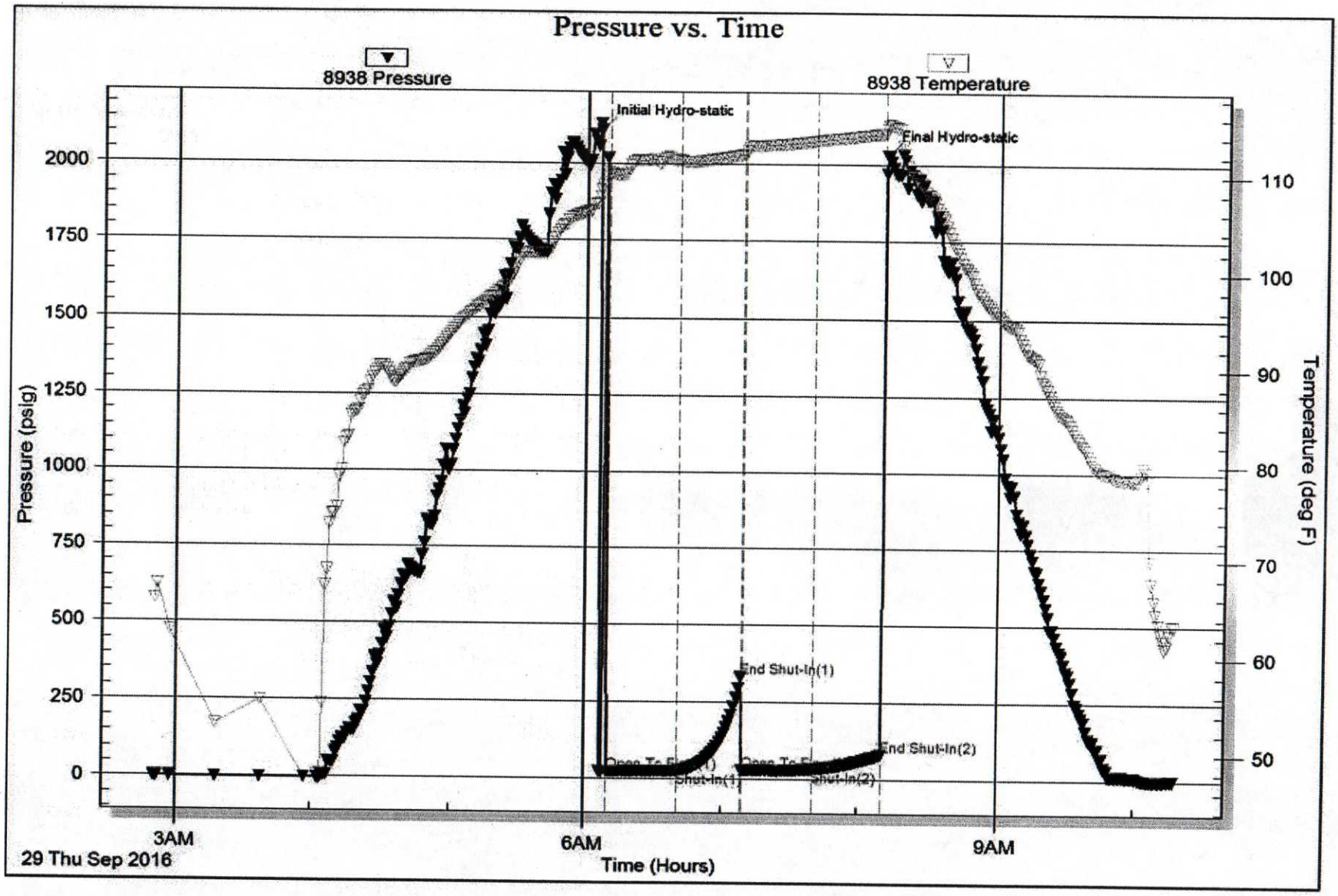
Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 15% O 85% M	0.212

Total Length: 30.00 ft Total Volume: 0.212 bbl

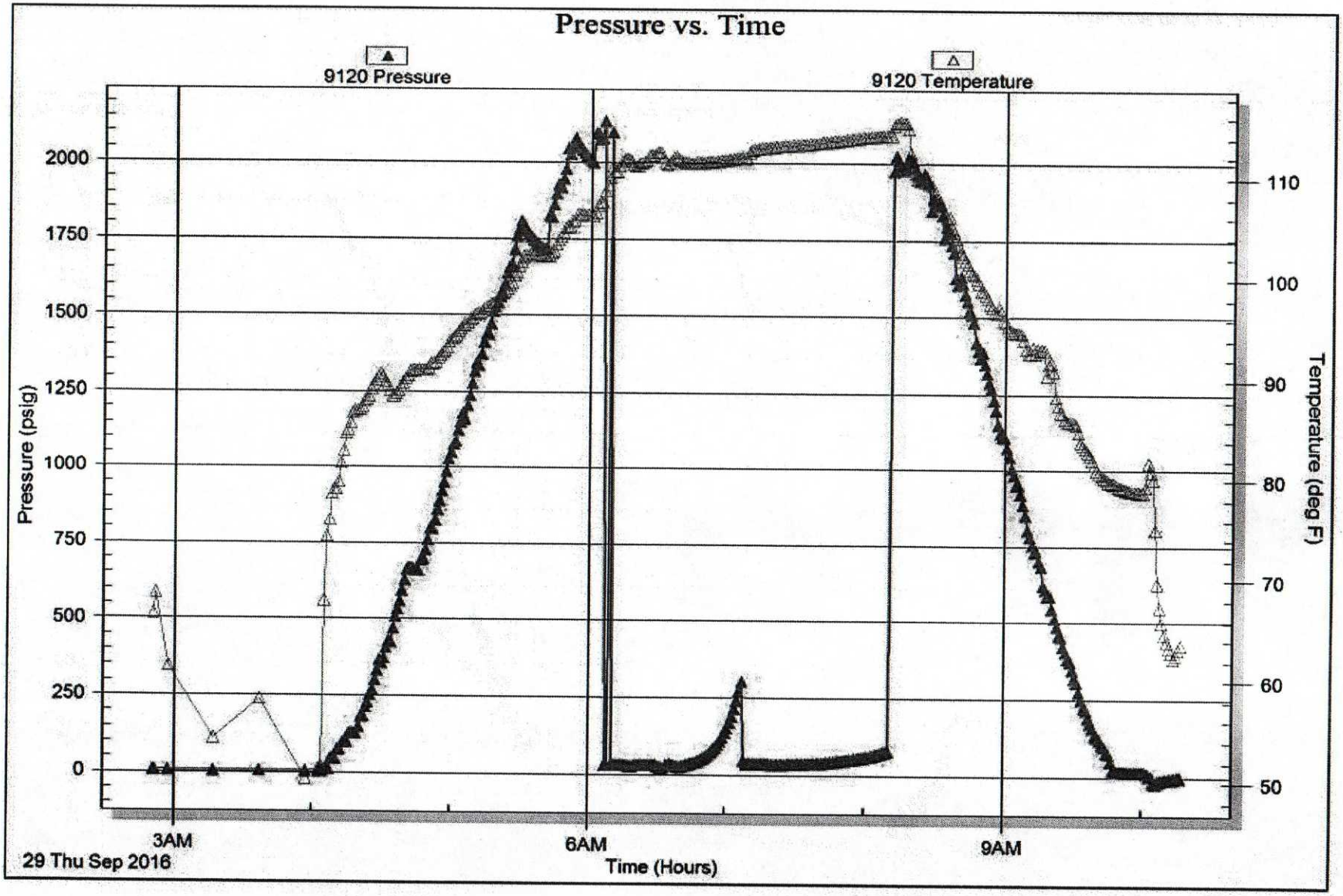
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 Inside Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 63483 Printed: 2016.09.29 @ 13:47:41

Serial #: 9120 Outside Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 63483 Printed: 2016.09.29 @ 13:47:42

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63483

Well Name & No. F.H.W. - Wierman #15-1 Test No. 4 Date 09/29/2016

Company Mike Kelso Oil Inc Elevation 2210 KB 2203 GL

Address POBox 467 Chase KS 67524 +0467

Co. Rep / Geo. Pat Dennihan / Mike Kelso Rig Skytop #1

Location: Sec. 15 Twp. 17S Rge. 21W Co. Ness State KS

Interval Tested 4174 - 4200 Zone Tested Mississippi

Anchor Length 26 Drill Pipe Run 3718 Mud Wt. 9.4

Top Packer Depth 4169 Drill Collars Run — Vis 59

Bottom Packer Depth 4174 Wt. Pipe Run 460 WL 8.8

Total Depth 4200 Chlorides 4000 ppm System LCM 2#

Blow Description IF - Weak Surface Blow; died in 30 seconds

ISI - No Blow

FF - No Blow

FSI - No Blow

Rec 30	Feet of OCM	%gas 15	%oil	%water 85	%mud
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 30 BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2110

(B) First Initial Flow 26

(C) First Final Flow 28

(D) Initial Shut-In 331

(E) Second Initial Flow 30

(F) Second Final Flow 34

(G) Final Shut-In 83

(H) Final Hydrostatic 2031

Initial Open 30

Initial Shut-In 30

Final Flow 30

Final Shut-In 30

- [X] Test 1150
- [X] Jars 250
- [X] Safety Joint 75
- [ ] Circ Sub
- [ ] Hourly Standby
- [X] Mileage 84RT 63
- [ ] Sampler
- [ ] Straddle
- [X] Shale Packer 250
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 1788

T-On Location 01:53

T-Started 02:50

T-Open 06:10

T-Pulled 08:10

T-Out 10:17

Comments flushed tool once on I.F

- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

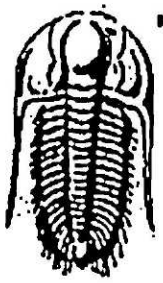
Sub Total 0

Total 1788

MP/DST Disc't

Approved By Our Representative Spencer J. Staab

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.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.30 @ 00:06:00
End Date: 2016.09.30 @ 06:58:15
Job Ticket #: 63484 DST #: 5

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

Printed: 2016.09.30 @ 08:28:17

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63484 DST#:5

Test Start: 2016.09.30 @ 00:06:00

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:00
Time Test Ended: 06:58:15

Test Type: Conventional Straddle (Reset)
Tester: Spencer J. Staab
Unit No: 84

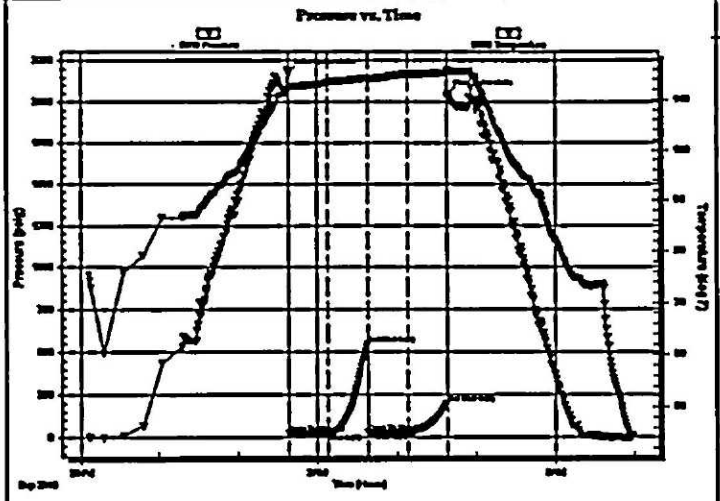
Interval: 4192.00 ft (KB) To 4220.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: 25.07 psig @ 4193.00 ft (KB)
Start Date: 2016.09.30 End Date: 2016.09.30
Start Time: 00:06:15 End Time: 06:58:15

Capacity: 8000.00 psig
Last Calib.: 2016.09.30
Time On Btm: 2016.09.30 @ 02:38:45
Time Off Btm: 2016.09.30 @ 04:38:45

TEST COMMENT: 30-IF-Weak Blow; Built to 1 and 1/4"
30-ISI-No Blow
30-FF-Weak surface blow; died
30-FSI-No Blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.43	112.39	Initial Hydro-static
1	22.20	112.04	Open To Flow (1)
30	22.70	113.51	Shut-In(1)
59	548.05	114.29	End Shut-In(1)
60	25.91	114.05	Open To Flow (2)
90	25.07	115.11	Shut-In(2)
119	199.41	115.42	End Shut-In(2)
120	2049.64	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63484 DST#:5

Test Start: 2016.09.30 @ 00:06:00

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:00
Time Test Ended: 06:58:15

Test Type: Conventional Straddle (Reset)
Tester: Spencer J. Staab
Unit No: 84

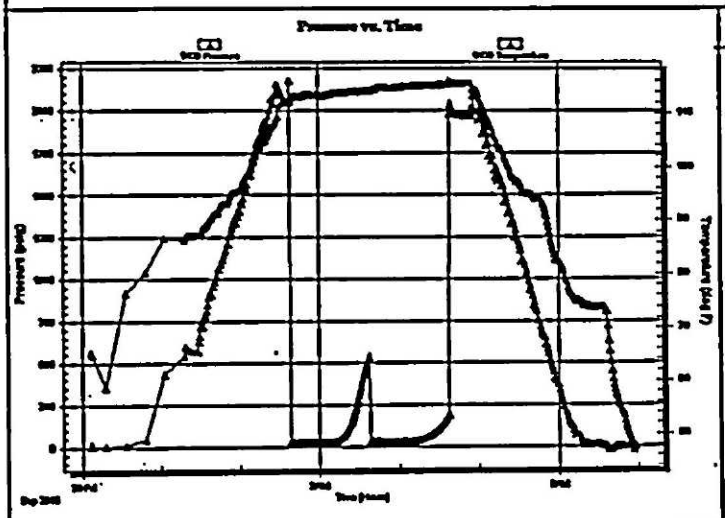
Interval: 4192.00 ft (KB) To 4220.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 Inches Hole Condition: Poor

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside
Press@RunDepth: psig @ 4193.00 ft (KB)
Start Date: 2016.09.30 End Date: 2016.09.30
Start Time: 00:06:15 End Time: 06:58:15

Capacity: 8000.00 psig
Last Calib.: 2016.09.30
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow; Built to 1 and 1/4"
30-ISI-No Blow
30-FF-Weak surface blow; died
30-FSI-No Blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63484 DST#: 5

Test Start: 2016.09.30 @ 00:06:00

GENERAL INFORMATION:

Formation: Mississippi
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:39:00
Time Test Ended: 06:58:15

Test Type: Conventional Straddle (Reset)
Tester: Spencer J. Staab
Unit No: 84

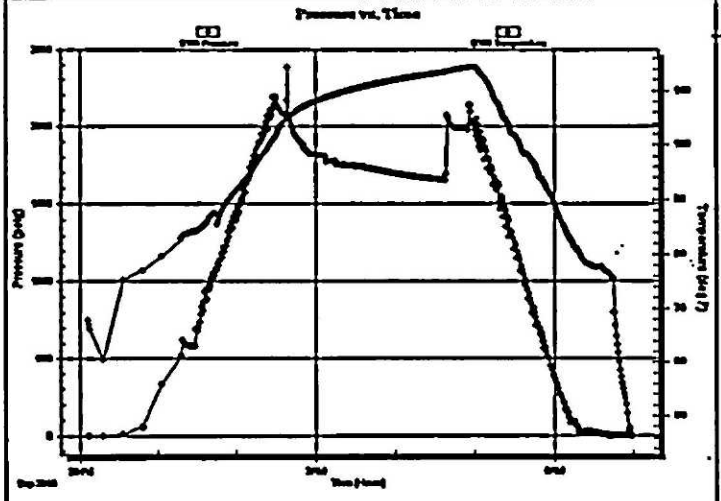
Interval: 4192.00 ft (KB) To 4220.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8353 Below (Straddle)
Press@RunDepth: psig @ 4222.00 ft (KB)
Start Date: 2016.09.30 End Date: 2016.09.30
Start Time: 00:06:15 End Time: 06:58:30

Capacity: 8000.00 psig
Last Calib.: 2016.09.30
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow; Built to 1 and 1/4"
30-ISI-No Blow
30-FF-Weak surface blow; died
30-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.21

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63484 **DST#: 5**

Test Start: 2016.09.30 @ 00:06:00

Tool Information

Drill Pipe:	Length:	3724.00 ft	Diameter:	3.82 inches	Volume:	52.79 bbl	
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	56.05 bbl	

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	4192.00 ft
Depth to Bottom Packer:	4220.00 ft
Interval betw een Packers:	28.00 ft
Tool Length:	84.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	51000.00 lb
Tool Chased	ft
String Weight: Initial	49000.00 lb
Final	49000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4170.00		
Shut In Tool	5.00			4175.00		
Hydraulic tool	5.00			4180.00		
Safety Joint	3.00			4183.00		
Packer	5.00			4188.00	23.00	Bottom Of Top Packer
Packer	4.00			4192.00		
Stubb	1.00			4193.00		
Recorder	0.00	9120	Outside	4193.00		
Recorder	0.00	8938	Inside	4193.00		
Perforations	23.00			4216.00		
Blank Off Sub	1.00			4217.00		
top of s.packer	3.00			4220.00	28.00	Tool Interval
Packer	0.00			4220.00		
Stubb	1.00			4221.00		
Change Over Sub	1.00			4222.00		
Recorder	0.00	8353	Below	4222.00		
Change Over Sub	1.00			4223.00		
Drill Pipe	30.00			4253.00	33.00	Bottom Packers & Anchor
Total Tool Length:	**84.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63484 **DST#:5**

Test Start: 2016.09.30 @ 00:06:00

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.79 in³	Gas Cushion Type:			
Resistivity:	ohmm	Gas Cushion Pressure:	psig		
Salinity:	6800.00 ppm				
Filter Cake:	inches				

Recovery Information

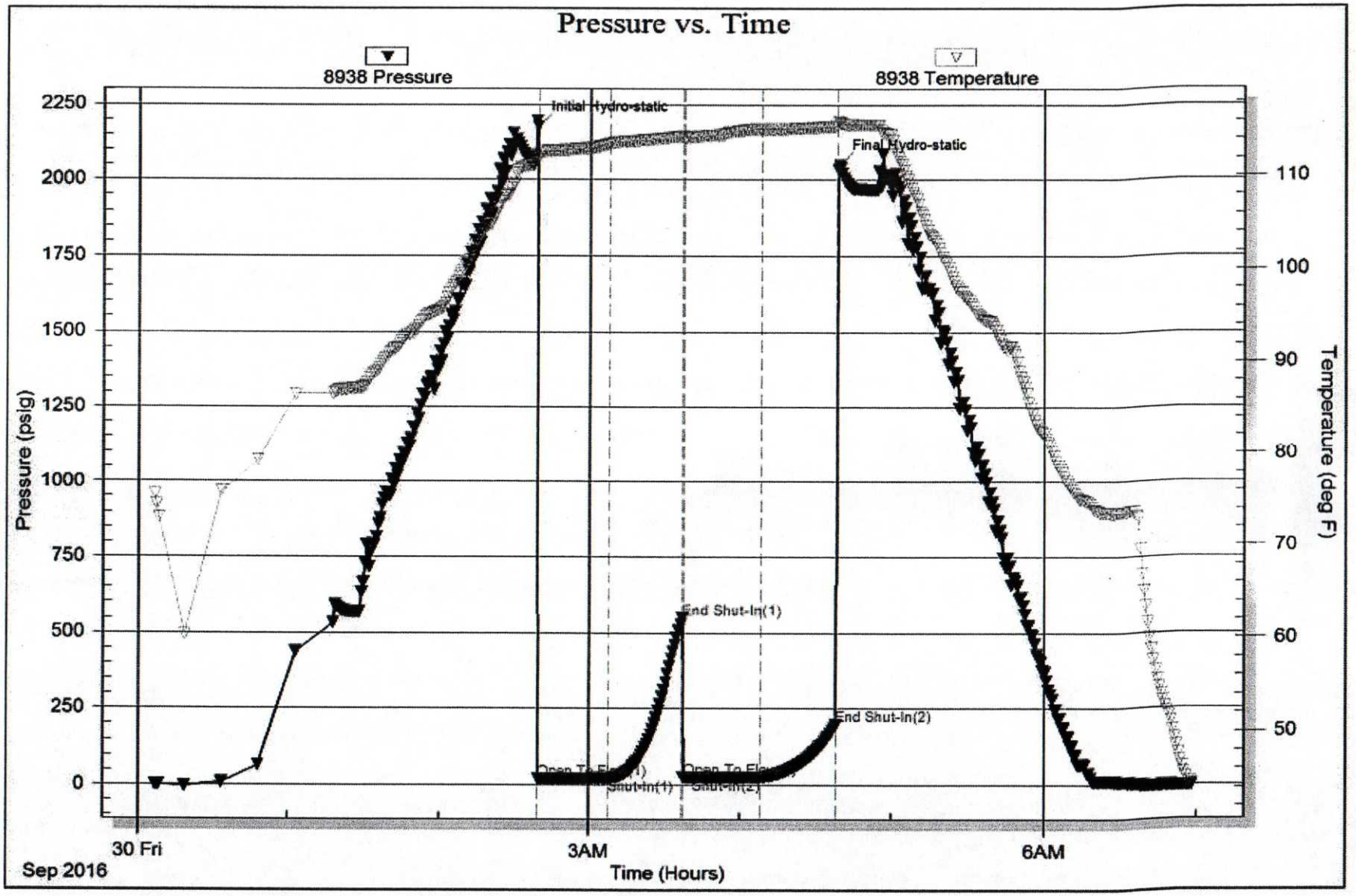
Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w/ oil spots	0.212

Total Length: 30.00 ft Total Volume: 0.212 bbl

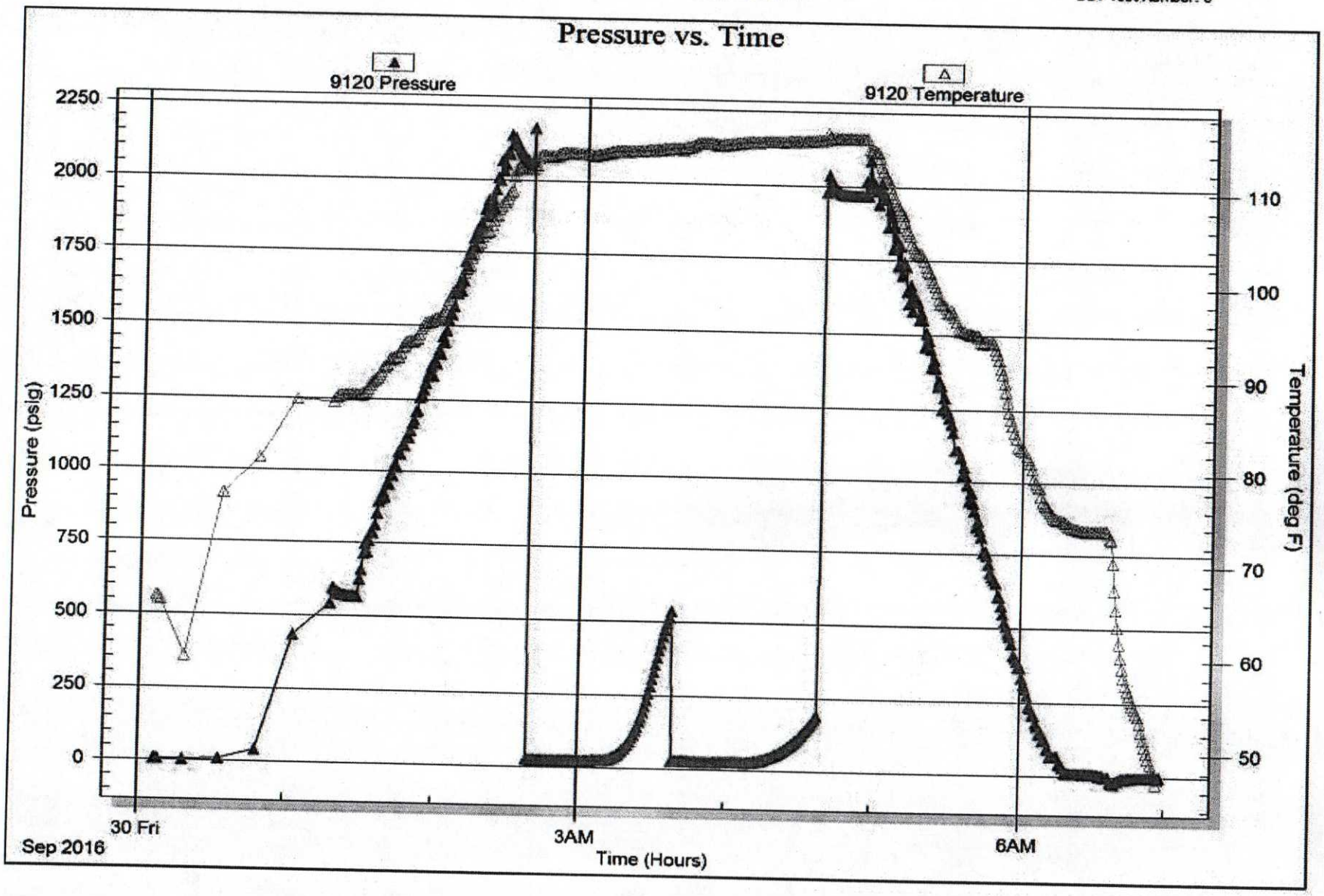
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 **Inside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 5



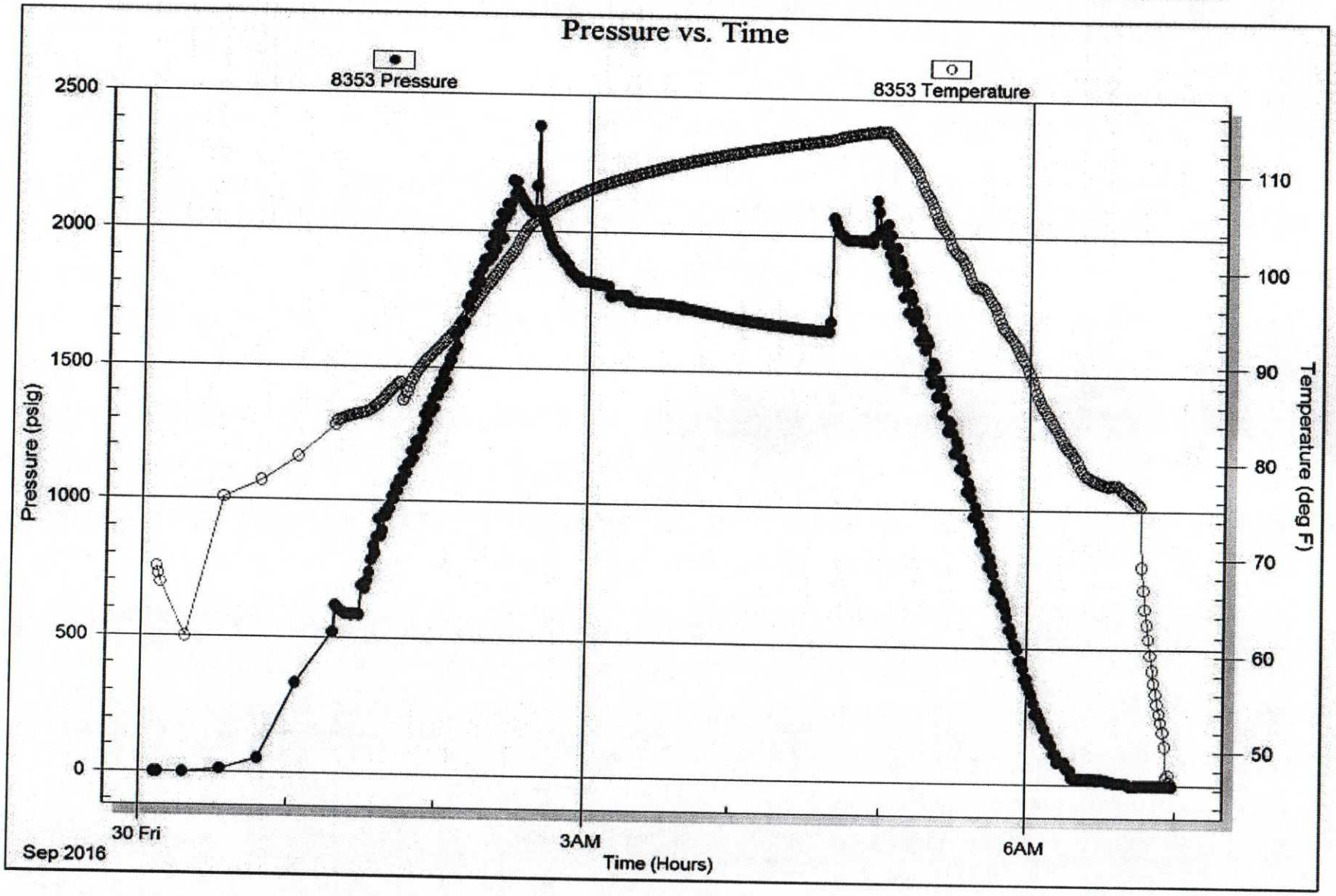
Trilobite Testing, Inc Ref. No: 63484 Printed: 2016.09.30 @ 08:28:18

Serial #: 9120 Outside Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 63484 Printed: 2016.09.30 @ 08:28:18

Serial #: 8353 Below (Straddle) Elso Oil Inc FHW-Wierman #15-1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 63484 Printed: 2016.09.30 @ 08:28:18

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 63484

Well Name & No. F.H.W.-Wiexman #15-1 Test No. 5 Date 09/29/2016

Company Mike Kelso Oil Inc Elevation 2210 KB 2203 GL

Address PO BOX 467 Chase KS 67524 + 0467

Co. Rep / Geo. Pat Dennihan / Mike Kelso Rig Sky top #1

Location: Sec. 15 Twp. 17S Rge. 21W Co. Ness State KS

Interval Tested 4192-4220 Zone Tested Mississippi

Anchor Length 28 Drill Pipe Run 3724 Mud Wt. 9.4

Top Packer Depth 4192 Drill Collars Run — Vis 51

Bottom Packer Depth 4220 Wt. Pipe Run 460 WL 9.8

Total Depth 4250 Chlorides 6800 ppm System LCM 1.5#

Blow Description IF - Weak Blow; Built to 1 1/4 inch

ISI - No Blow

FF - Weak Surface Blow; died

FSI - No Blow

Rec 30	Feet of Mud w/ oil spots	%gas	%oil	%water 100	%mud
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 30 BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2174

(B) First Initial Flow 22

(C) First Final Flow 23

(D) Initial Shut-In 548

(E) Second Initial Flow 26

(F) Second Final Flow 25

(G) Final Shut-In 200

(H) Final Hydrostatic 2049

Initial Open 30

Initial Shut-In 30

Final Flow 30

Final Shut-In 30

- [x] Test 1150
- [ ] Jars
- [x] Safety Joint 75
- [ ] Circ Sub
- [ ] Hourly Standby
- [x] Mileage 84 RT 63
- [ ] Sampler
- [ ] Straddle 600
- [x] Shale Packer 250
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 2138

T-On Location 23:00

T-Started 00:06 09/30/2016

T-Open 02:38

T-Pulled 04:38

T-Out 06:58

Comments

- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

Sub Total 0

Total 2138

MP/DST Disc't

Approved By Our Representative Spencer J. Strait

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