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Pioneer Energy Services

MICRORESISTIVITY LOG

Company PROSPECT OIL & GAS, INC.
Well ALVIN SOUKUP JR #1
Field HALL-GURNEY
County RUSSELL
State KANSAS

Location: API # : 15-167-24070-00-00
SW NE SW
1650' FSL & 1650' FWL
SEC 3 TWP 15S RGE 12W

Other Services
CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 1836'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1842'
D.F. N/A
G.L. 1836'

Date	12/6/2017		
Run Number	ONE		
Depth Driller	3360'		
Depth Logger	3360'		
Bottom Logged Interval	3359'		
Top Log Interval	2500'		
Casing Driller	8.625" @ 390'		
Casing Logger	388'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	8400		
Density / Viscosity	9.2 58		
pH / Fluid Loss	9.0 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 55		
Rmf @ Meas. Temp	0.38 @ 55		
Rmc @ Meas. Temp	0.68 @ 55		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.25 @ 110		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	110		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	BRAD HUTCHISON		

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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.

RUSSELL,
SOUTH TO THE T, 3 EAST, 1 SOUTH,
EAST INTO

Log Measured From: KELLY BUSHING 6 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: BRAD HUTCHISON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\prospect_alvin soukup jr 1.db
Dataset field/well/STACK/pass3.3/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	193	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	3360	110	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			ML-Armadillo (ARM001) Pengo Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00
MCAL	1.00					
MI	1.00					
MN	1.00					

Dataset: prospect_alvin soukup jr 1.db: field/well/MEL/pass2
Total length: 5.50 ft
Total weight: 100.00 lb
O.D.: 3.50 in

MAIN PASS

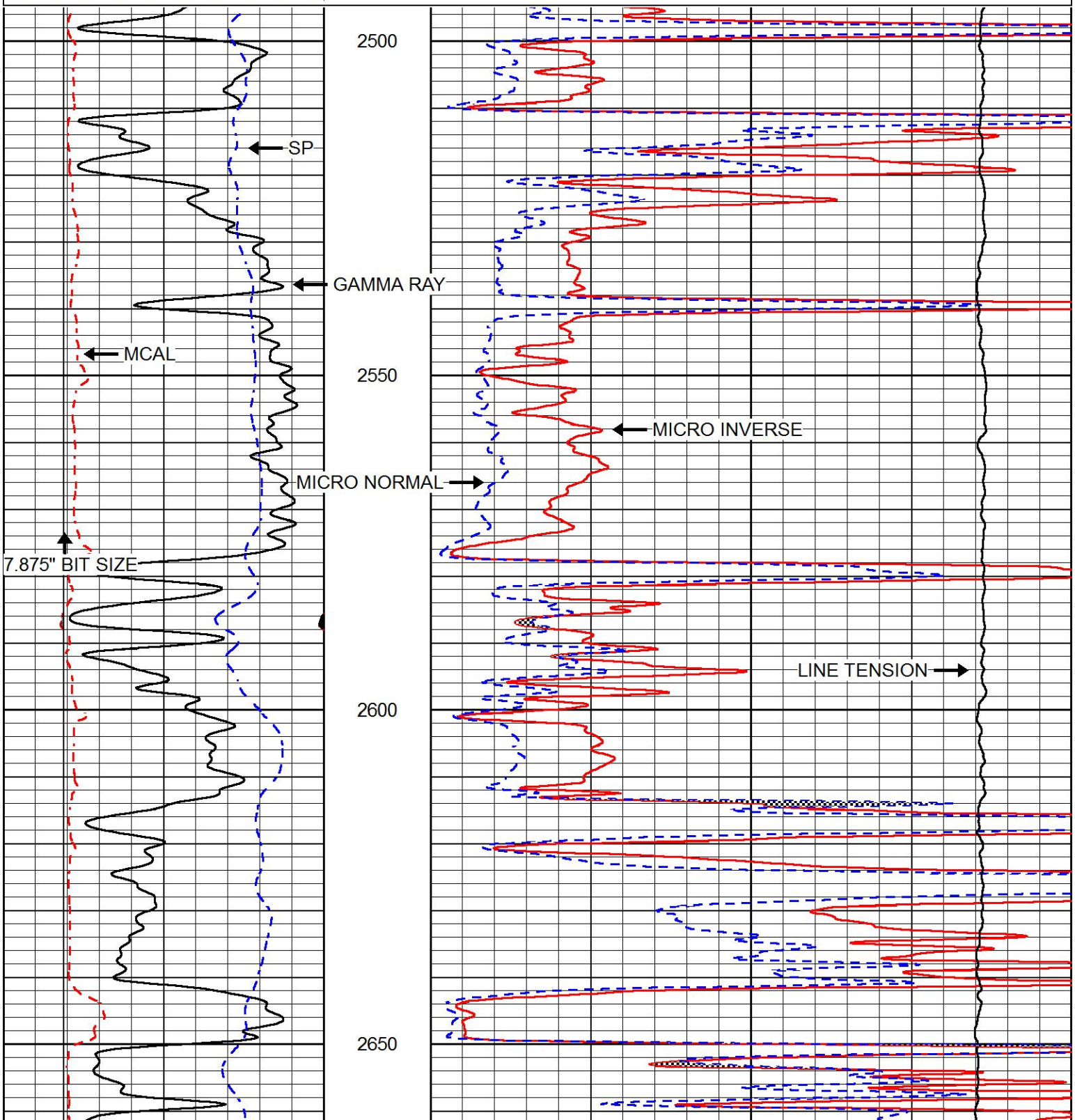
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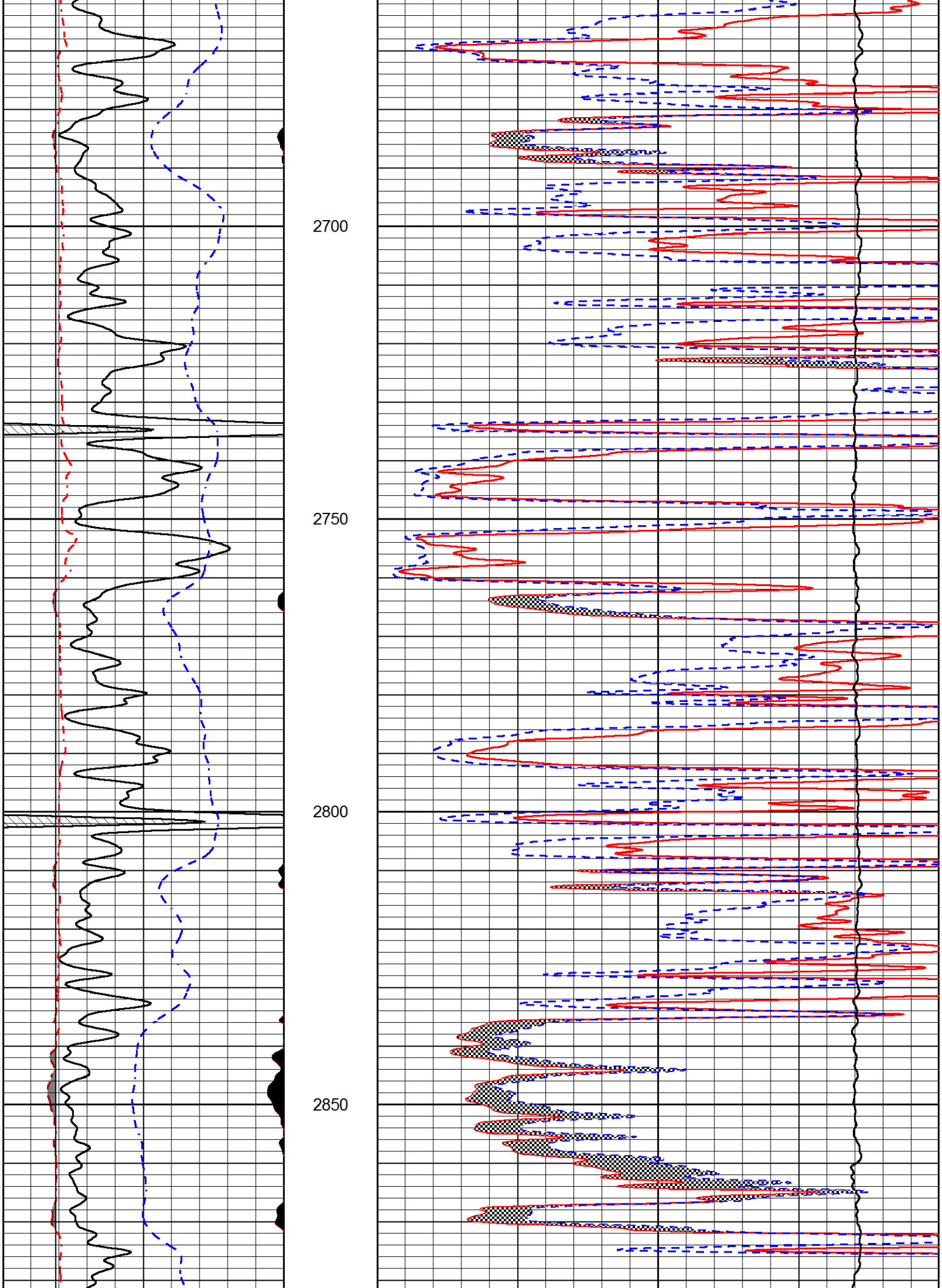
MAIN PASS

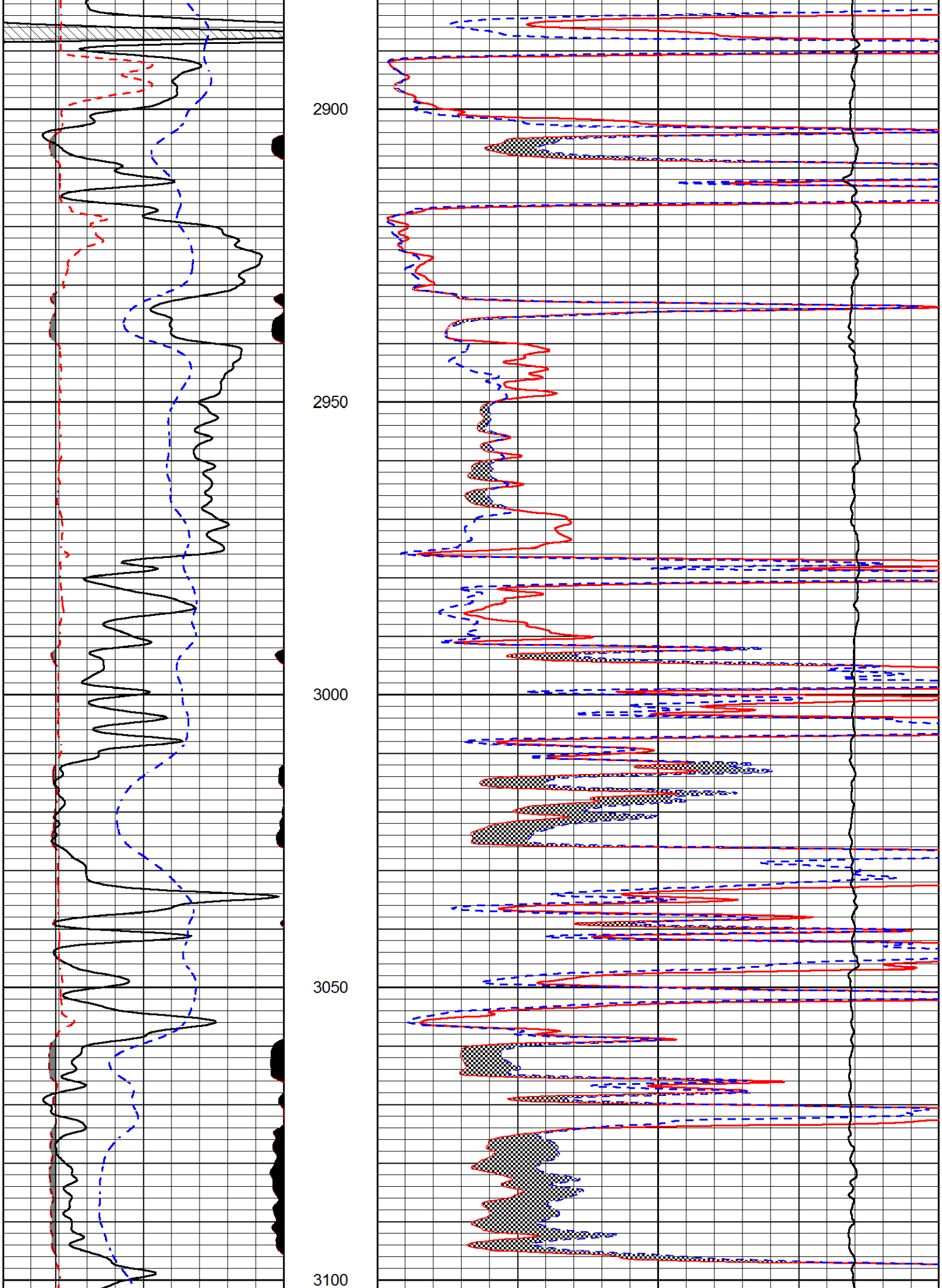
Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass4.1
Presentation Format	micro
Dataset Creation	Wed Dec 06 01:55:07 2017
Charted by	Depth in Feet scaled 1:240

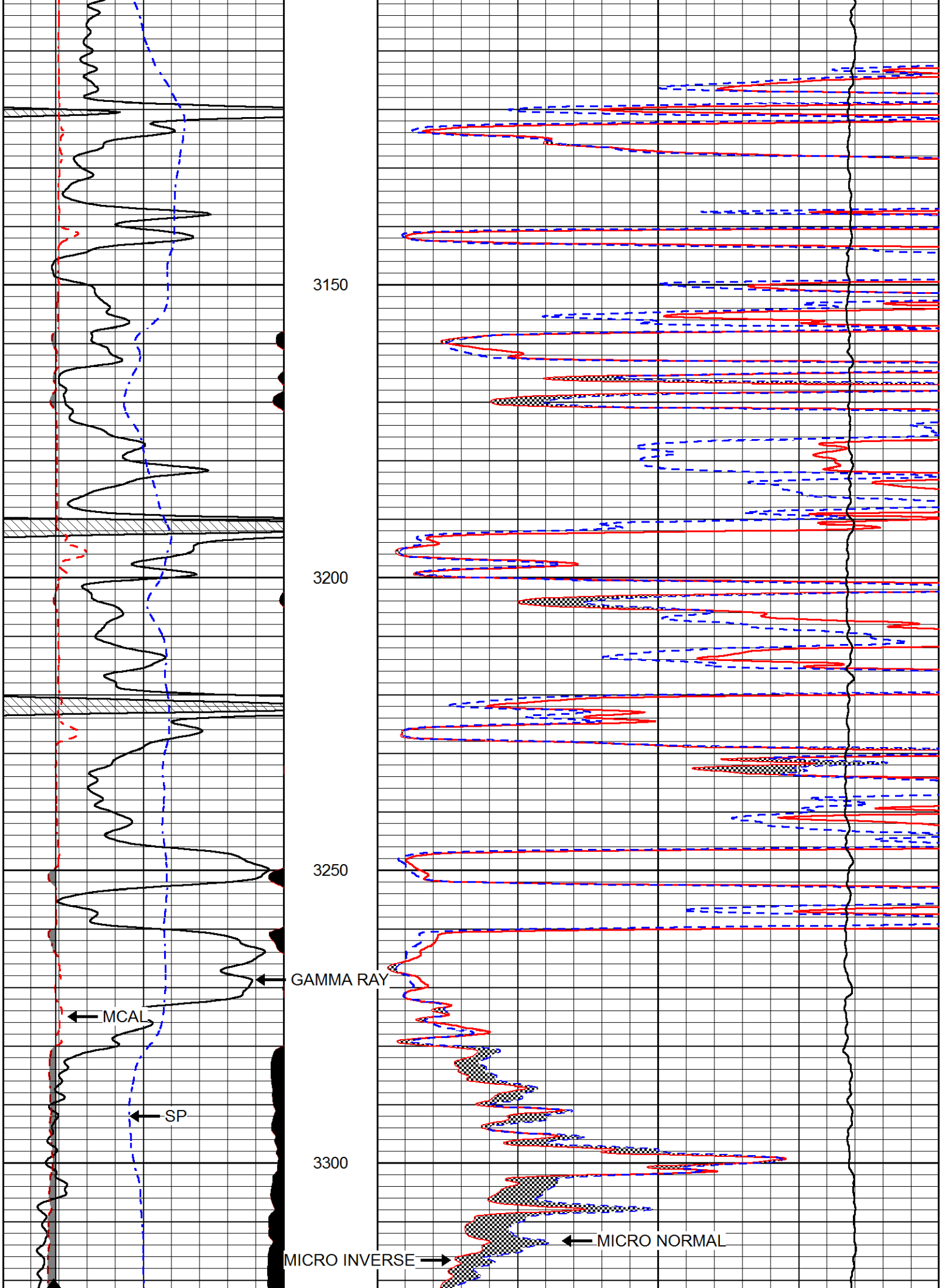
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

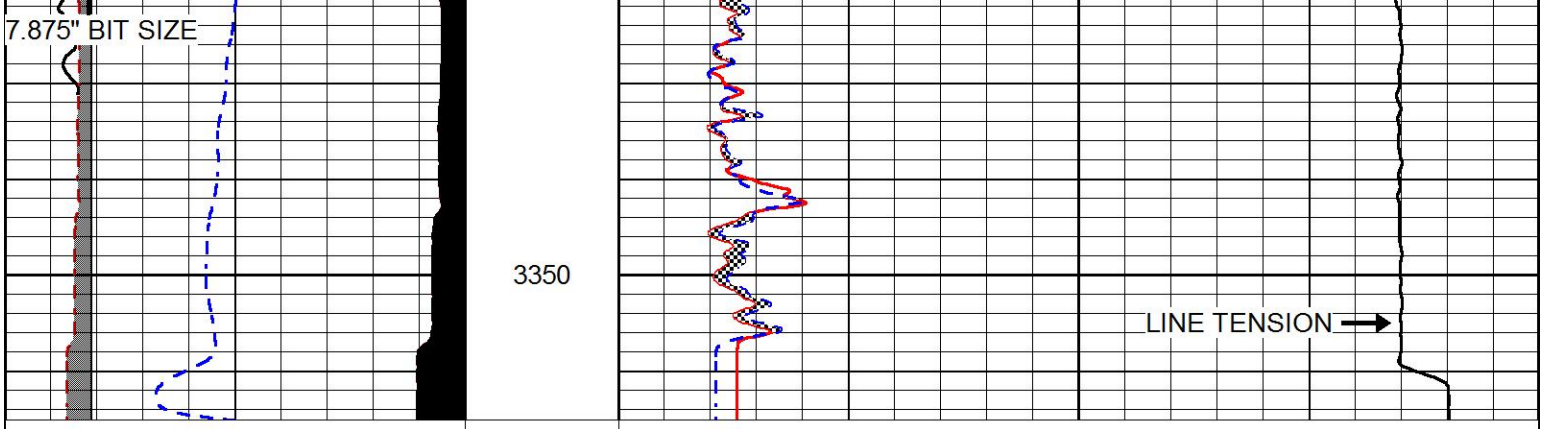
0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0




2700
2750
2800
2850


2900
2950
3000
3050
3100


3150
3200
3250
3300
GAMMA RAY
MCAL
SP
MICRO NORMAL
MICRO INVERSE



0	Gamma Ray (GAPI)	150
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2.875	mcal (in)	7.875
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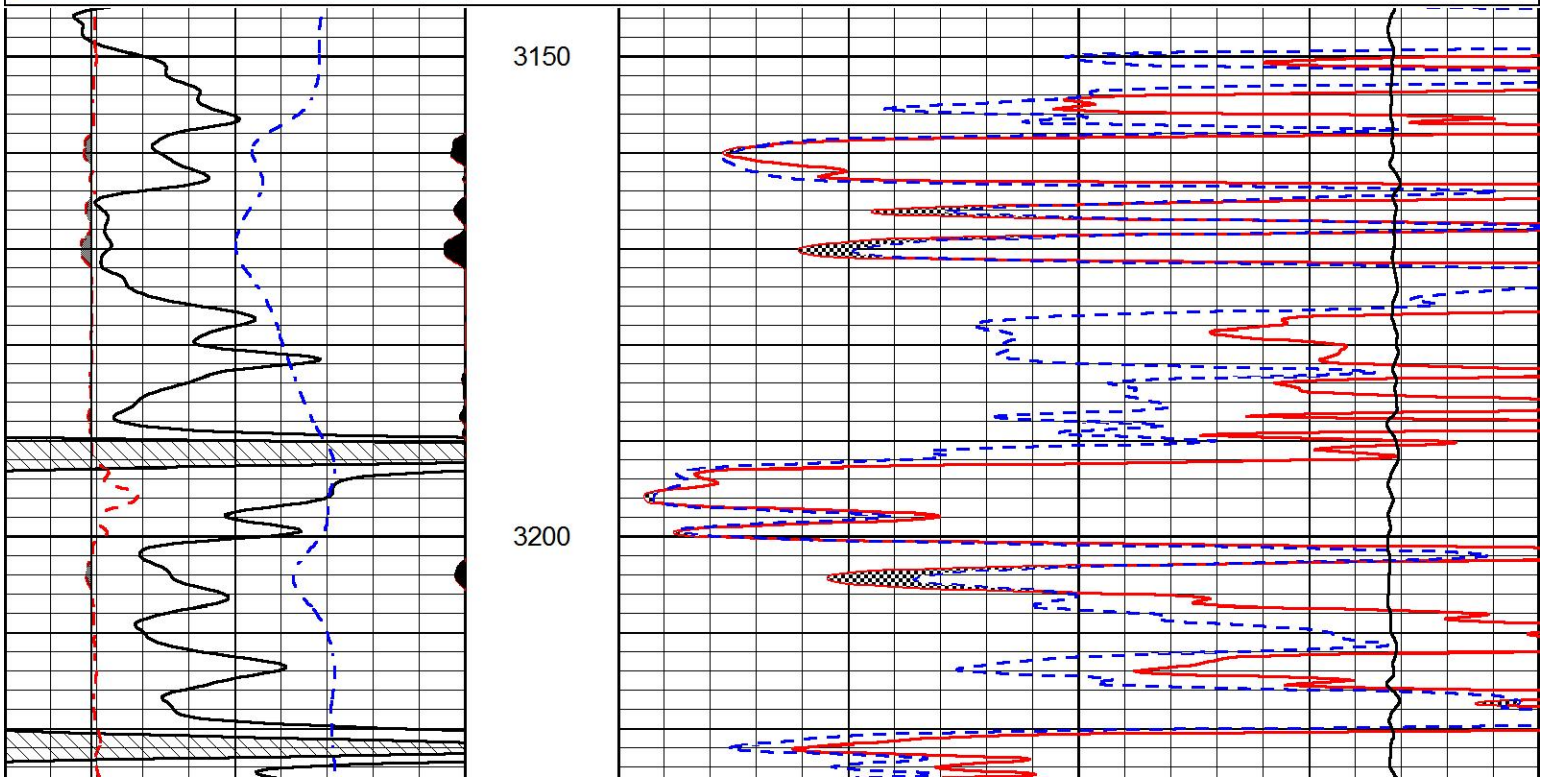
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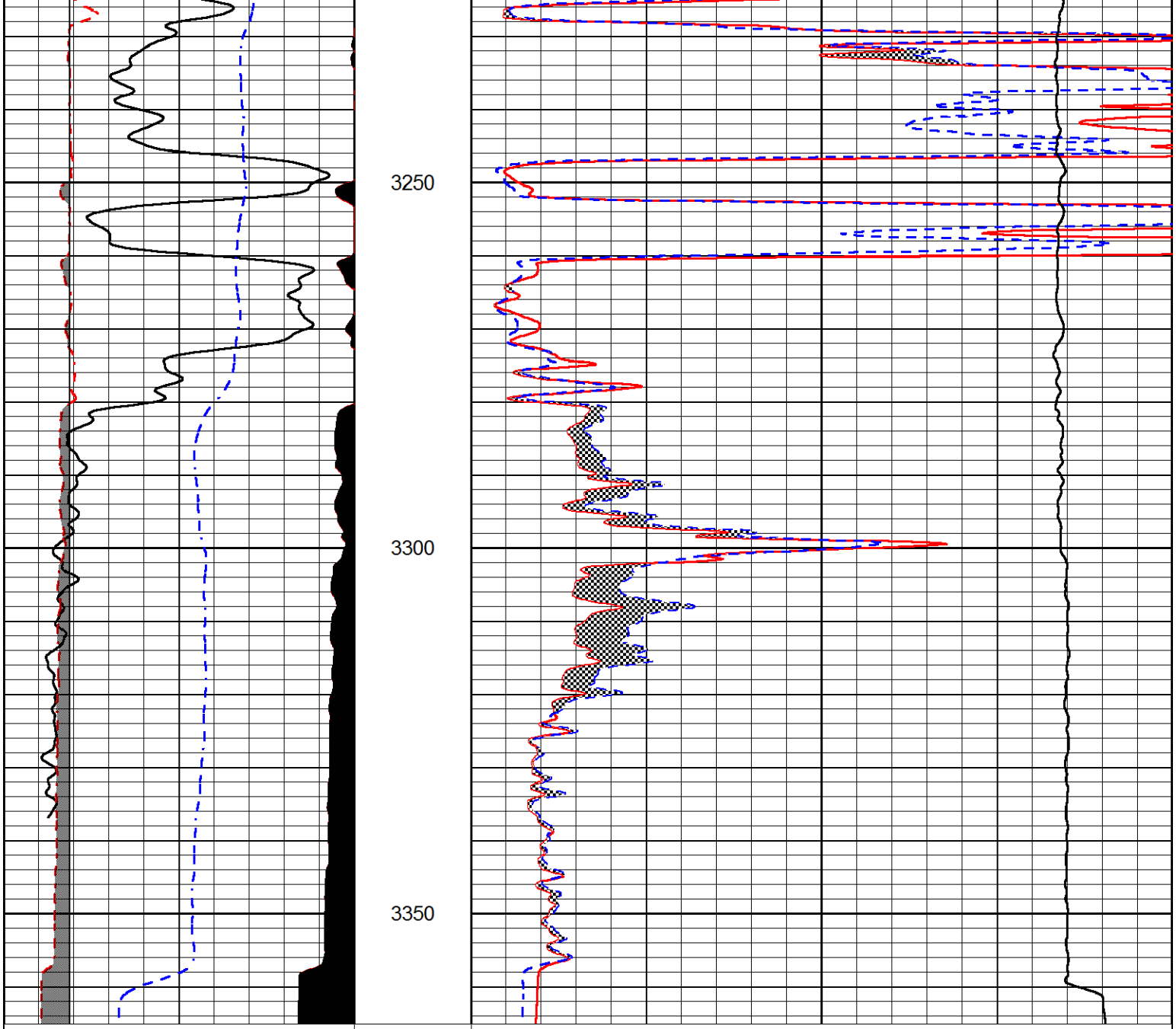
REPEAT SECTION

Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass2.1
Presentation Format	micro
Dataset Creation	Wed Dec 06 01:25:10 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-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





Calibration Report

Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass3.3
Dataset Creation	Wed Dec 06 01:22:57 2017

Dual Induction Calibration Report

Serial-Model:	PSI 91-M&W
Calibration Performed:	Thu Nov 09 00:57:24 2017

	Readings		References		Results	
Loop:	Air	Loop	Air	Loop	Gain	Offset

Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-31.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Sat Dec 02 18:42:45 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4903.44	6153.79	cps
Aluminum	2.640	g/cc	934.50	4021.31	cps

Spine Angle = 75.61 Density/Spine Ratio = 0.517

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED SEP 6 10:30:30 2017

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89
Tool Model: M&W
Calibration Performed: Wed Sep 06 19:51:14 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

Calibration Report

Database File prospect_alvin soukup jr 1.db
Dataset Pathname MEL/pass2
Dataset Creation Wed Dec 06 02:32:09 2017

Microlog Calibration Report

Serial-Model: ARM001-Armadillo
Performed: Fri Jul 14 14:07:44 2017

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0127	0.6730	V	0.0000	10.0000	Ohm.m	45.5000	2.4000

Normal	0.0127	0.8730	V	0.0000	10.0000	Ohm-m	45.5000	-2.4000
Inverse	0.0029	0.8729	V	0.0000	10.0000	Ohm-m	47.0000	-1.5000
Caliper	1.1319	8.2966	V	6.0000	19.0000	in	3.0000	1.2750

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Company	PROSPECT OIL & GAS, INC.
Well	ALVIN SOUKUP JR #1
Field	HALL-GURNEY
County	RUSSELL
State	KANSAS