

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1312351

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt.
□ Deepening □ Re-perf. □ Conv. to ENHR □ Conv. to SWD □ Plug Back □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec. TwpS. 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 Approved by: Date:



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ing and shut-in pressu	ormations penetrated. Eures, whether shut-in preith final chart(s). Attach	essure reached stati	c level, hydrosta	atic pressures, bott		
		tain Geophysical Data a r newer AND an image		gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional S		Yes No			on (Top), Depth an		Sample
Samples Sent to Geol	logical Survey	☐ Yes ☐ No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-			ion, 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 / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Plug Off Zone							
Does the volume of the to		n this well? aulic fracturing treatment ex submitted to the chemical (_	Yes ? Yes Yes	No (If No, ski	p questions 2 ar p question 3) out Page Three	
Shots Per Foot	PERFORATIO	N RECORD - Bridge Plug	s Set/Type		cture, Shot, Cement		
	Specify Fo	ootage of Each Interval Per	forated	(A	mount and Kind of Ma	terial Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENH	IR. Producing Meth		Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bls. Gas	Mcf Wate	er B	bls. G	as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	Open Hole	METHOD OF COMPLE Perf. Dually (Submit A	Comp. Cor	mmingled	PRODUCTIO	ON INTERVAL:
(If vented, Sub	omit ACO-18.)	Other (Specify)	(Submit)	100-3) (SUB	omit ACO-4)		

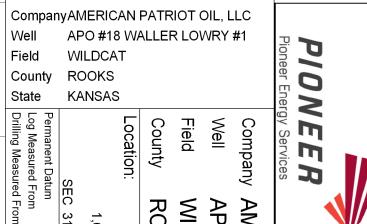
Form	ACO1 - Well Completion
Operator	American Patriot Oil LLC
Well Name	APO #18 Waller Lowry 1
Doc ID	1312351

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	20	250	com	175	4%

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD	All Mar Sens Annual go	nition of assessment of	Para Maria Maria	-	1
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APO#18 2016 31 8 5	10 W	The state of the state of	9:35Am	JOB START	JOB FINISH
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OLD OR NEW (CIRCLE ONE)	COCATION	CH ZW GN	IW /25	Rook'S	1 8×500
CIRCLE ONE)		A leaf around Allahor	V	The second second	Variable
CONTRACTOR	14 11 11		4E INTO	1	
TYPE OF JOB COMMENT	2" CALVER	OWNER			
HOLE SIZE LO VA	0/0/	VILL of Set 182 201 20		Contract team	
CASING SIZE 8 5/8 New DEPT	263	CEMENT	1		
TUBING SIZE DEPT	Art Service 3 and	AMOUNT ORI	DERED_175	SX (am	7
DRILL PIPE DEPT	and the second s	islated to part of	3%CC		
PRES. MAX 2 DEPT		to take no state and the re-	2 / Sel		
MEACTIME		COMMON			
CEMENT LEFT IN CSG. 15-20	JOINT	POZMIX_		@	
PERFS		GEL		@	THE REAL PROPERTY.
DISPLACEMENT 1580	RL	CHLORIDE	A TOTAL OF THE PROPERTY	@	THE PARTY OF THE P
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BULK TRUCK			CARLES AND STREET	@	
# DRIVER				@	1 11
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REMARKS:		MILEAGE			
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Recieved CIRCU	LATIN				
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You are hereby requested to rent cementing ournish cementer and helper(s) to assist owner of work as is listed. The characteristic of the characteristic o		A de Salestania forma		-	ring hearden
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GNATURE Le Charmely	Vacination of the			100	
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		DISCOUNT	topic and with	IF PAI	D IN 30 DAYS



Computer Processed Interpretation

Company AMERICAN PATRIOT OIL, LLC ROOKS APO #18 WALLER LOWRY #1 WILDCAT API#: 15-163-24312-00-00 State **KANSAS** Other Services

<<< Fold Here >>>

Payflag

If: PHIE> J. LONG

2, VCL<

6

, SPC>

'10

SW<

50 & DCAL<

二

Apparent Grain Density SP Corrected For Baseline

Analysis By

TIM MARTIN

MARC DOWNING

Witnessed By Recorded By DGA SPC DCAL

BVWSXO

Caliper

Bulk Volume Water In Flushed Zone

Bulk Volume Water

Density - Neutron Crossplot Shale Corrected

\CL

Volume Of Clay

Water Saturation In The Flushed Zone

WS

Water Saturation

Curve Definitions

Depth Logger Date Recorded

 $\frac{\omega}{\omega}$

TWP 8S RGE 19W

GROUND LEVEL KELLY BUSHING KELLY BUSHING

Elevation

2040

Elevation

1,670' FNL & 931' FWL

DIL/CNL/CDL

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. DAMAR, 5 EAST, 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

785-625-3858 www.pioneeres.com

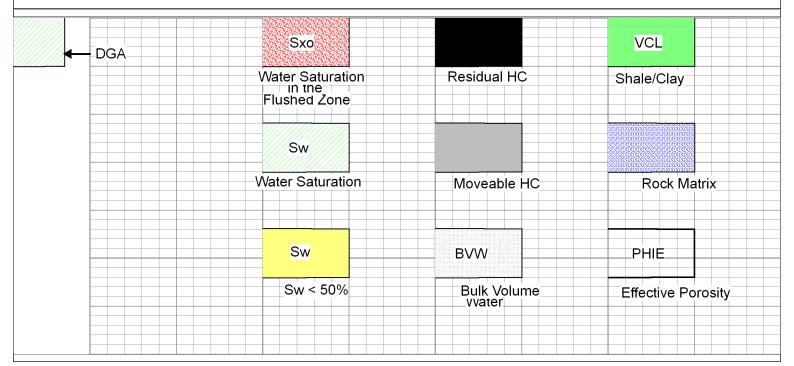
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: MARC DOWNING
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator: T. MARTIN	Secondary Witness:

Database File cross plots\2wxplt.db
Dataset Pathname litho

Presentation Format 2wxplt

Dataset Creation Thu Apr 24 14:32:02 1997

Charted by Depth in Feet scaled 1:240





Computer Processed Interpretation

Main Pass

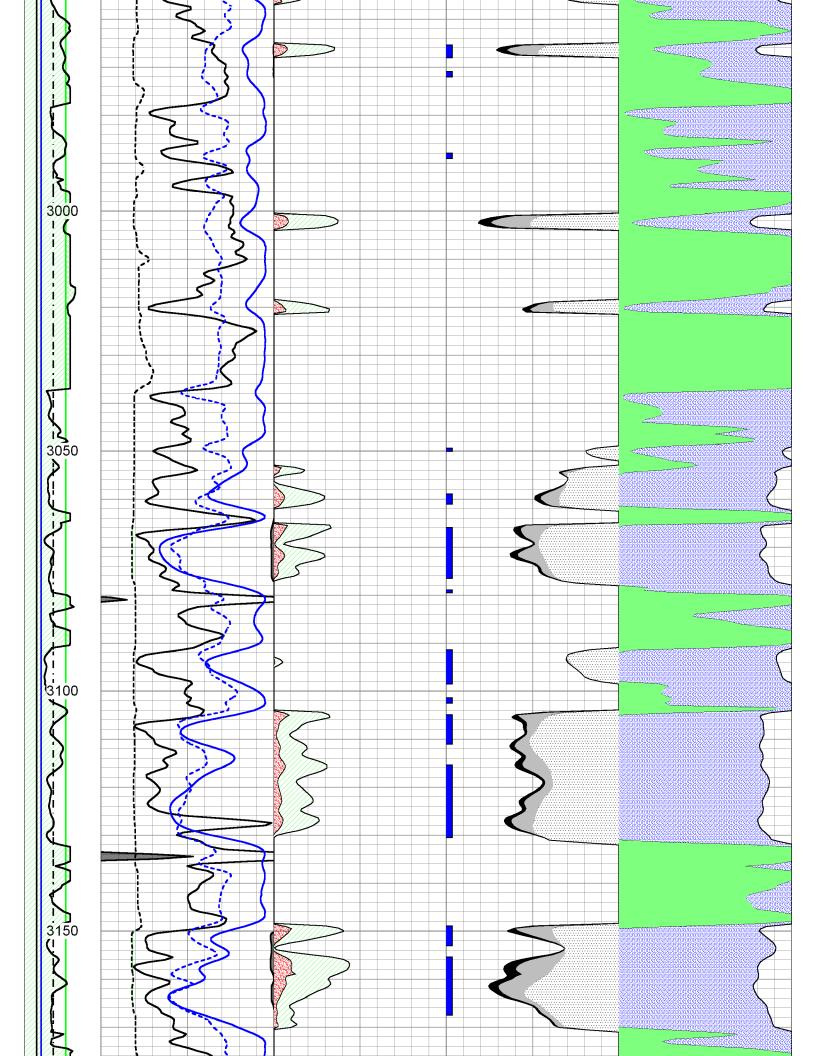
Database File americanpatriot_apo_#18_wallerlowry_#1\ampatriot_apo_18_wallerlowry_1hd.db

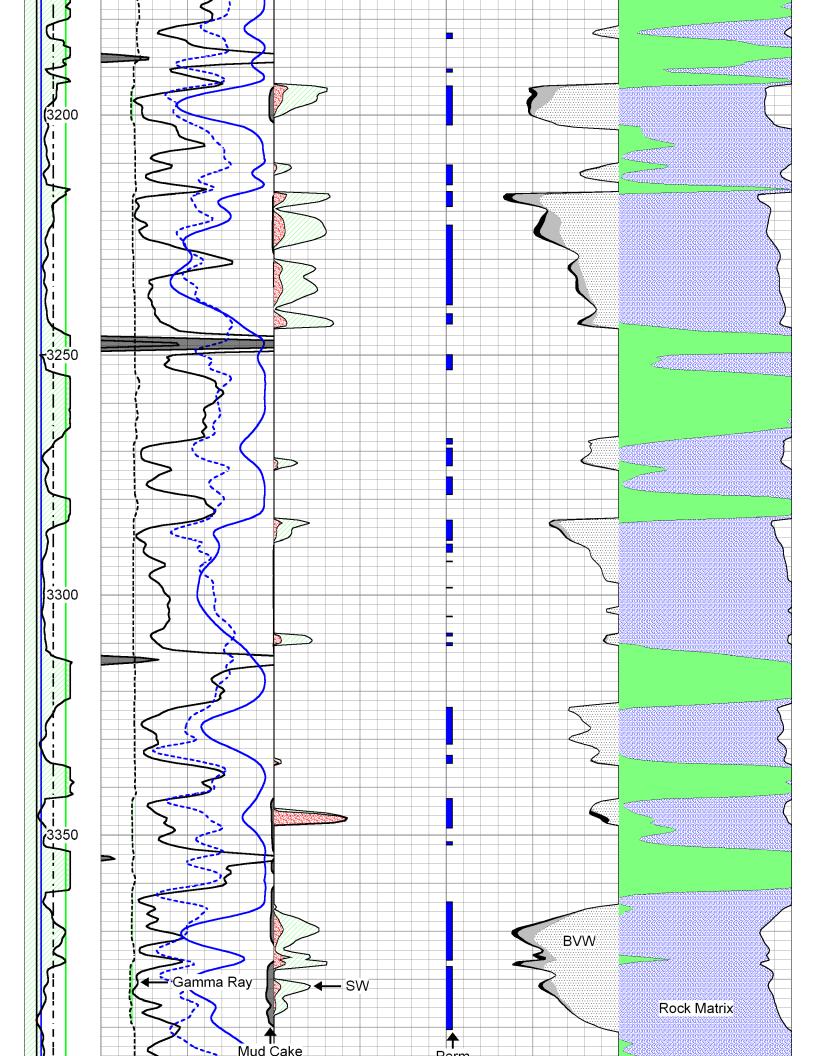
Dataset Pathname MEL/amcpi

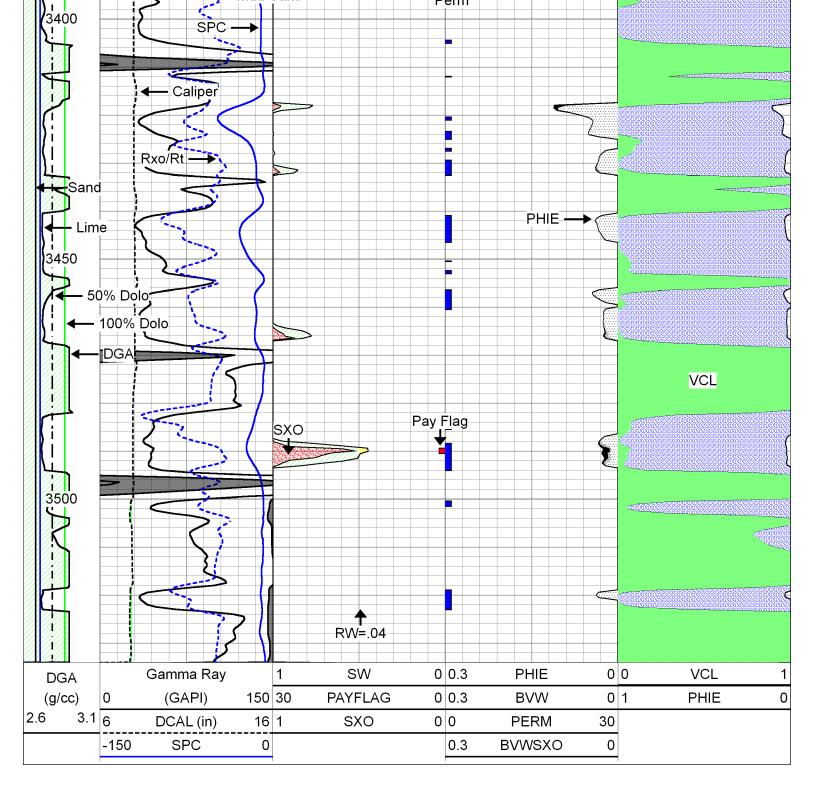
Presentation Format calc

Dataset Creation Fri Apr 29 11:57:27 2016 Charted by Depth in Feet scaled 1:240

DGA		Gamma Ray	1	SW	0 0.3	PHIE	0	0 VCL	1
, ,	0	(GAPI)	150 30	PAYFLAG	0 0.3	BVW	0	1 PHIE	0
2.6 3.1	6	DCAL (in)	16 1	SXO	0 0	PERM	30		
	-150	SPC	0		0.3	BVWSXO	0		
2900				RW=.04					
2950							⊅		\rightarrow





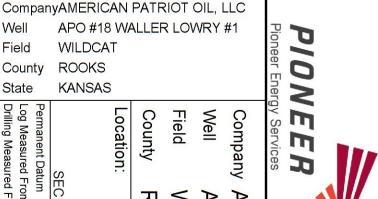




Company AMERICAN PATRIOT OIL, LLC

Well APO #18 WALLER LOWRY #1

Field WILDCAT
County ROOKS
State KANSAS



DUAL COMP POROSIT

County State Drilling Measured From Permanent Datum Log Measured From Company AMERICAN PATRIOT OIL, LLC WILDCAT APO #18 WALLER LOWRY #1 1,670' FNL & 931' FWL 4/28/2016 TWP 8S RGE 19W KELLY BUSHING API#: 15-163-24312-00-00 **GROUND LEVEL** Elevation State KANSAS Other Services Elevation 2048' N/A 2040'

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.

Run Number

Depth Driller

I ype Log

CNL/CDI

Depth Logger

Bottom Logged Interval

op Logged Interva

ype Fluid In Hole

CHEMICAL

4800

3548'

250'

3576'

Salinity, PPM CL

Run No.

B

From 263

5

7D 263

8.625" Size

Wgt. 23#

263 7

<<< Fold Here >>>

Casing Record From 00

Borehole Record

MARC DOWNING

W ONE

7.875" 12.25" Max. Rec. Temp.

П

Density Level

Recorded By Equipment --Operating Rig Time

Location

108

COLBY

1/2 HOURS

9.4 FULL 112

Witnessed By

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. DAMAR, 5 EAST, 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

785-625-3858 www.pioneeres.com

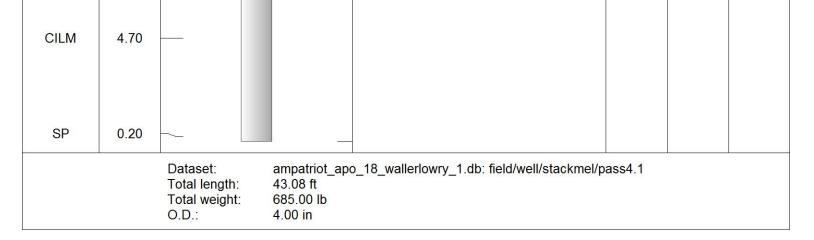
Your Pioneer Energy Services Crew This Log Record Was Witnessed By MARC DOWNING Engineer: J. LONG **Primary Witness:** Operator: T. MARTIN Secondary Witness: Operator: Secondary Witness: Secondary Witness: Operator:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\ampatriot_apo_18_wallerlowry_1.db
Dataset field/well/stackmel/pass4.1/_vars_

	10p - Bottom								
Α	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	М	MATRXDEN g/cc		
1	7.875	112	5.5	0	1	2	2.71		
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft		
Limestone	0	0	0	-620	54	Off	3576		

Sensor	Offset (ft)	Schematic	Description —	Length (ft)	O.D. (in)	Weight (
GR	40.58	_	——GR-M&W (89-M&W) —	3.00	3.50	50.00
ENLSC ENSSC	37.48 — 36.73 —		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (71-914)	8.50	4.00	250.0
MOA!	40.00		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83					
RLL3 RLL3F	15.80 15.79					
CILD	8.00		——DIL-M&W (1987)	18.50	3.50	220.0





MAIN PASS

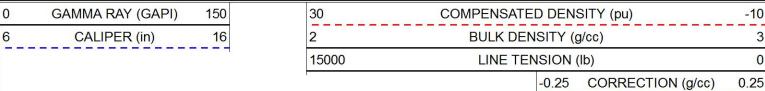
2" SCALE BULK DENSITY

Database File ampatriot_apo_18_wallerlowry_1.db

Dataset Pathname stackmel/pass4.3

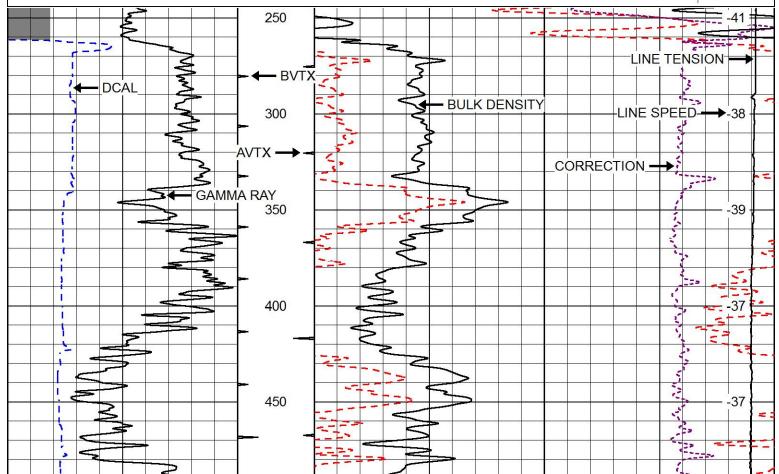
Presentation Format cd

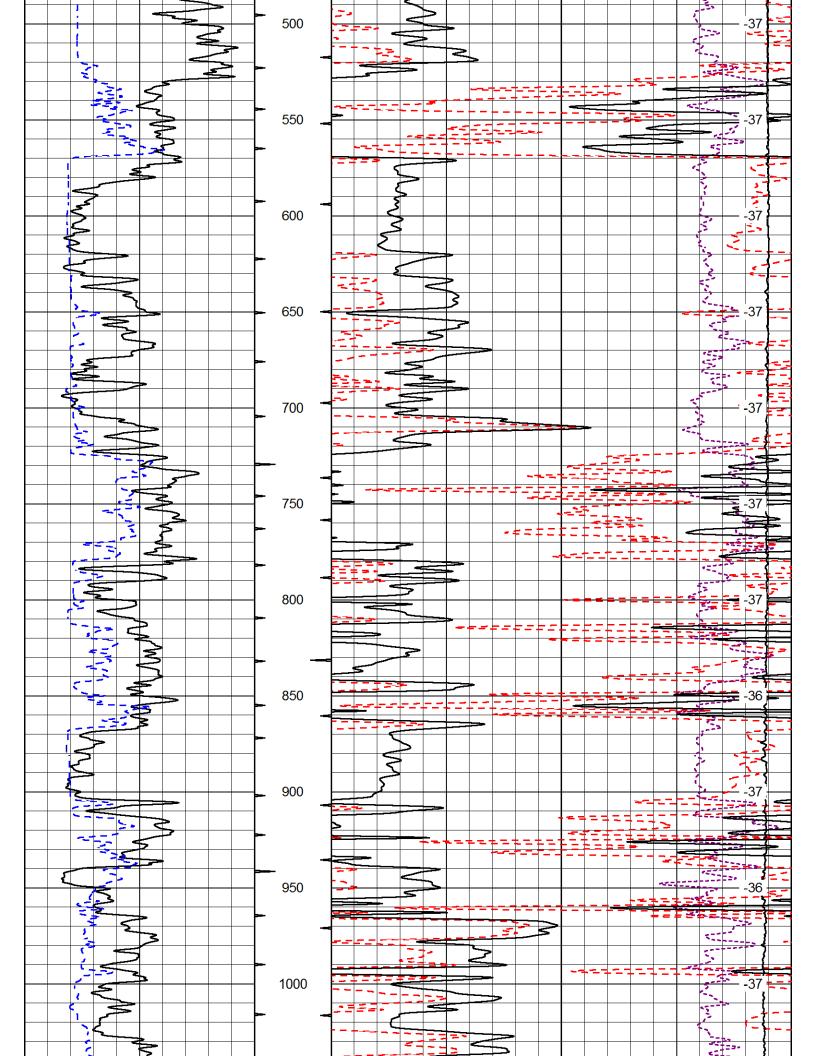
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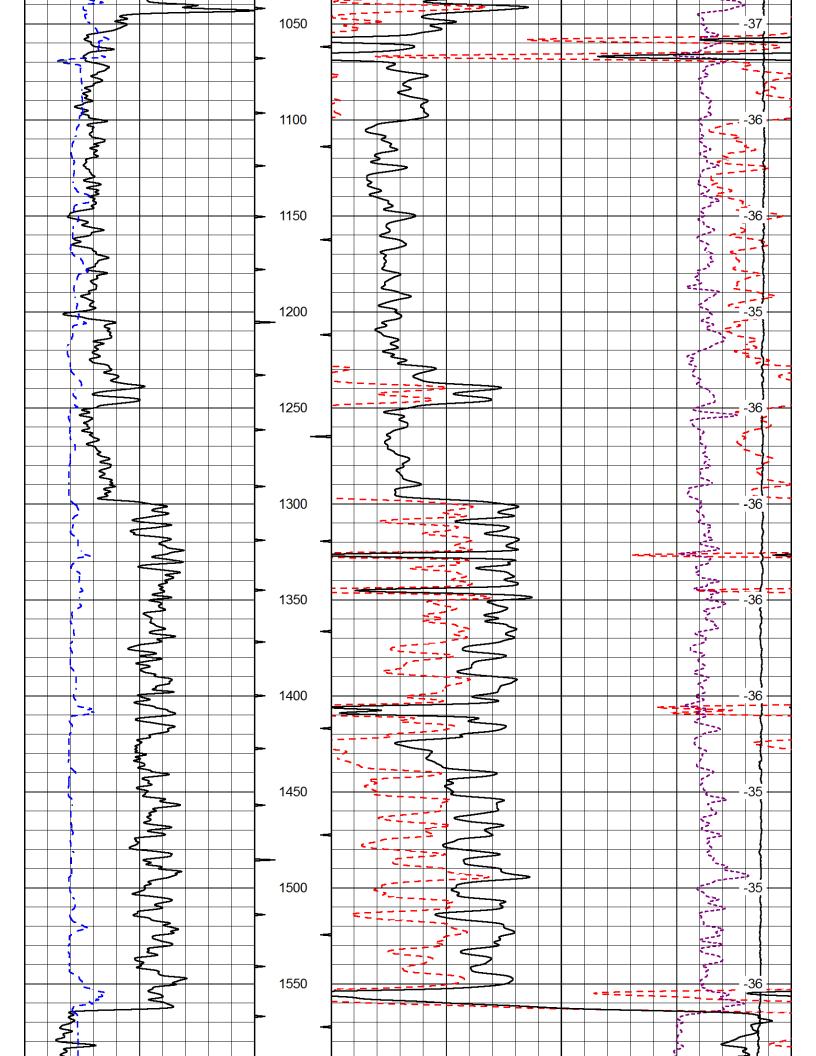


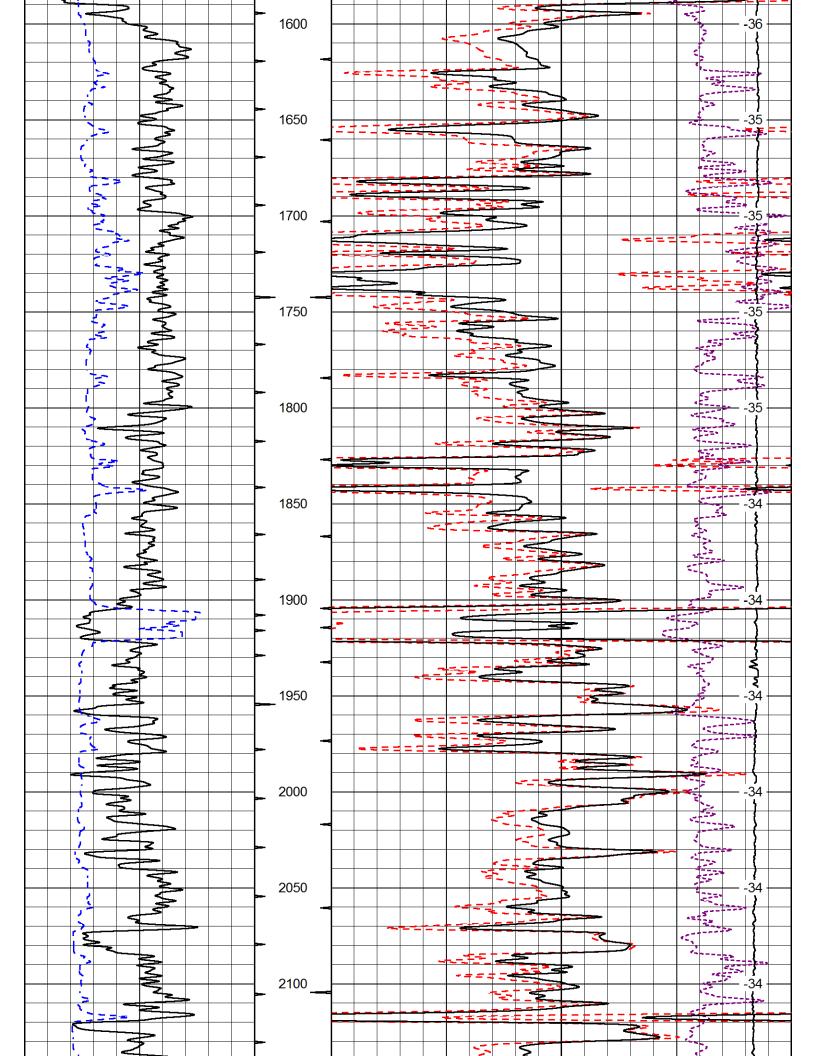
25 CORRECTION (g/cc) 0.25 LINE SPEED

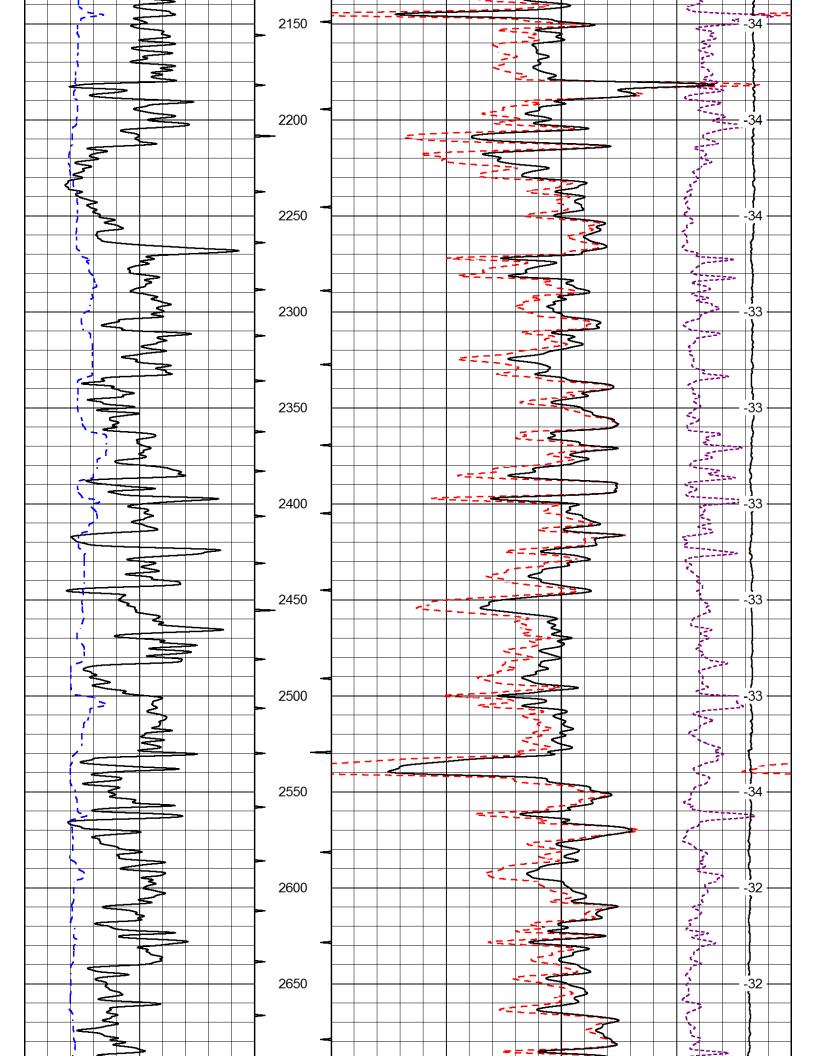
(ft/min)

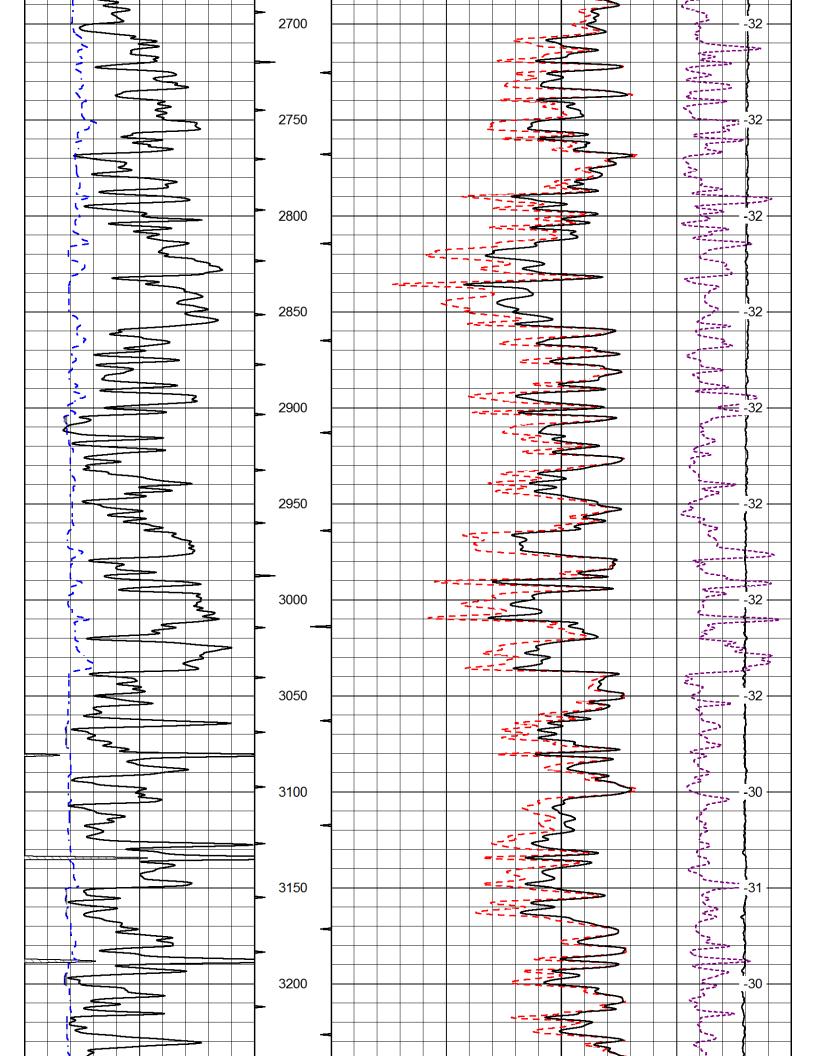


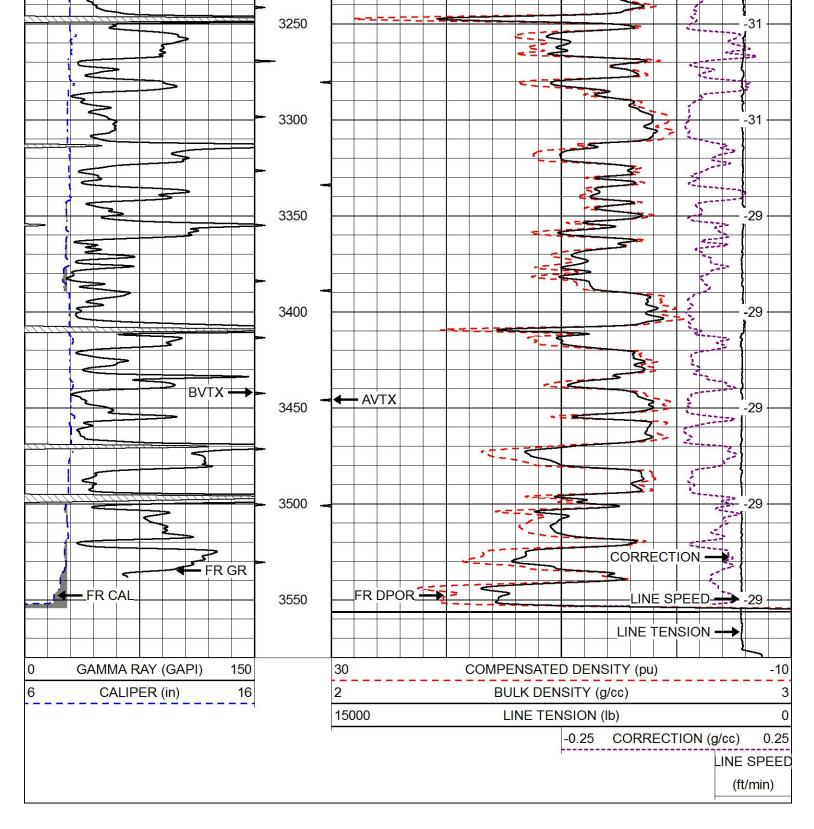














MAIN PASS

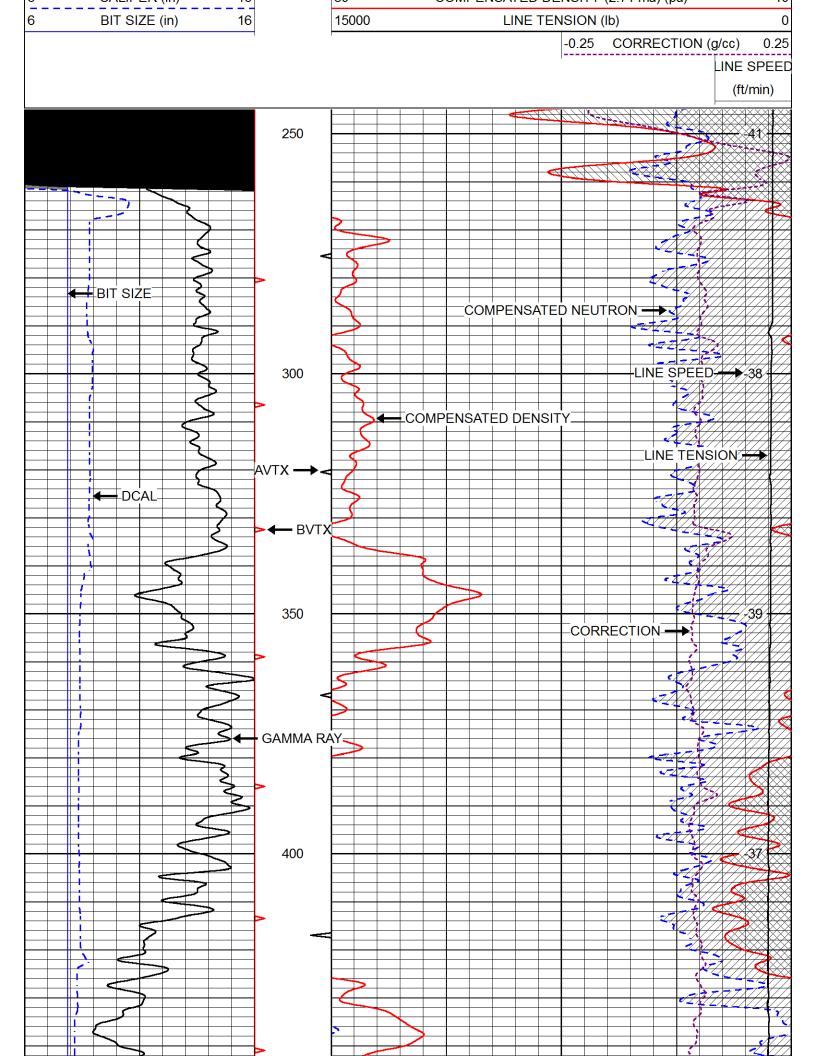
Database File ampatriot_apo_18_wallerlowry_1.db

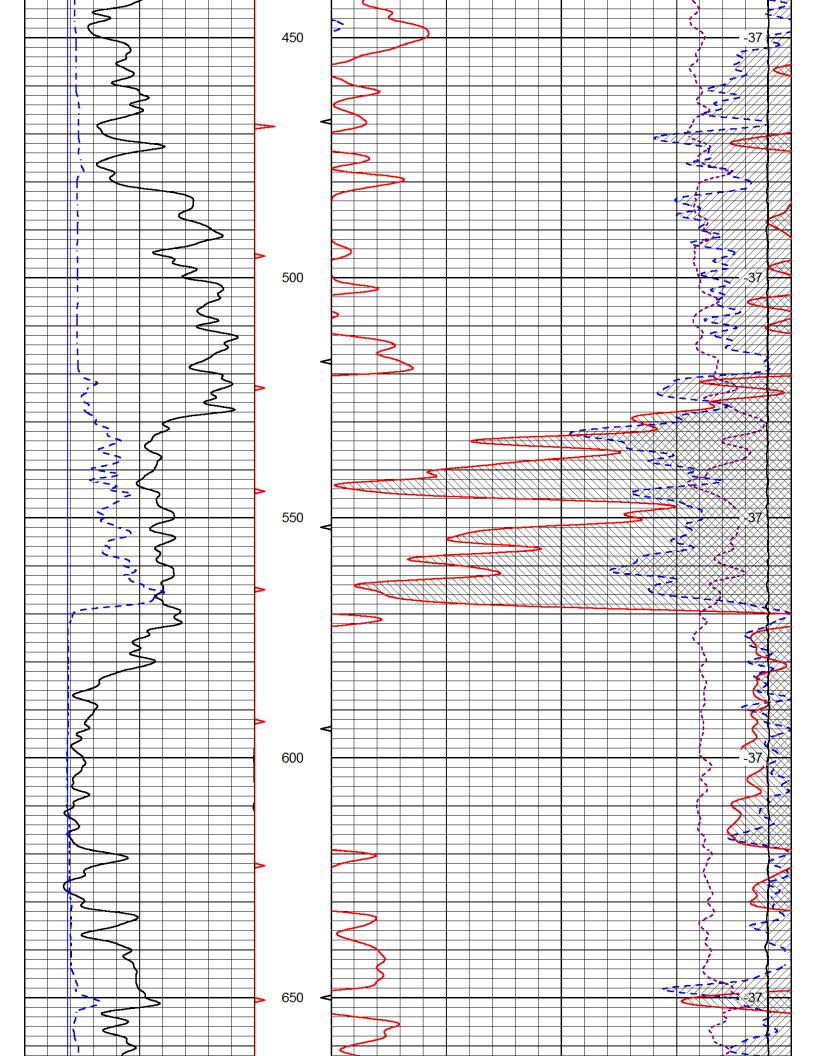
Dataset Pathname stackmel/pass4.1

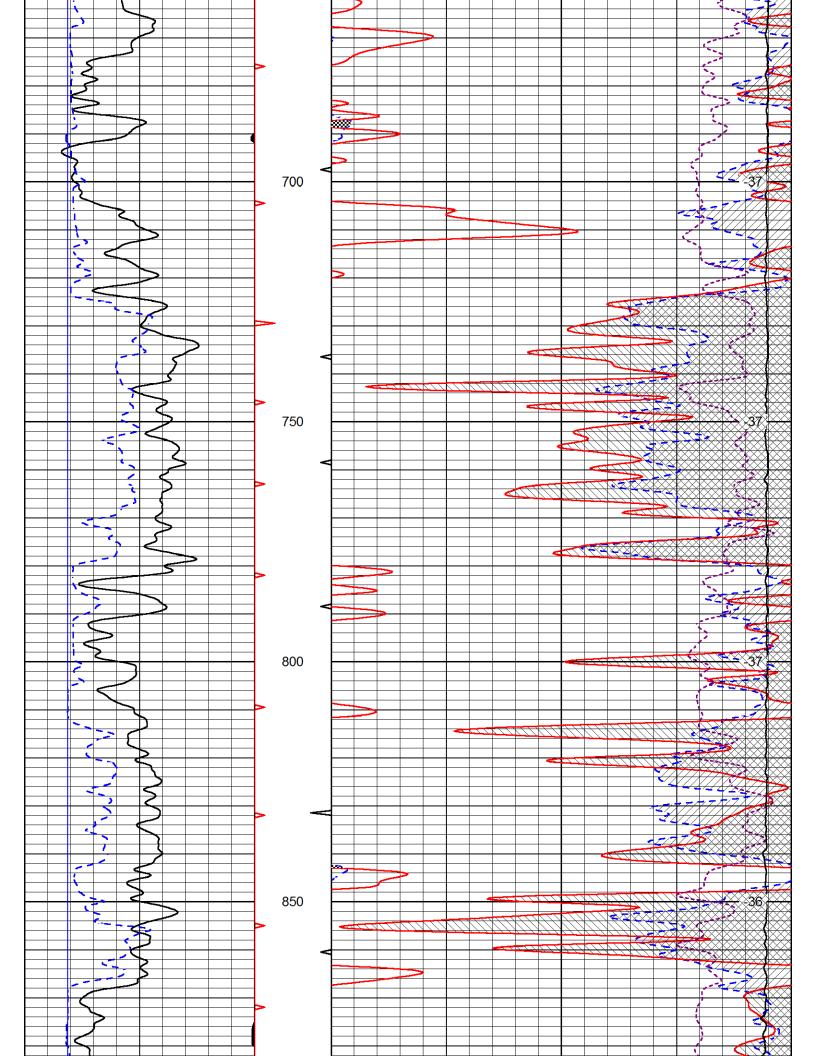
Presentation Format cndlspec

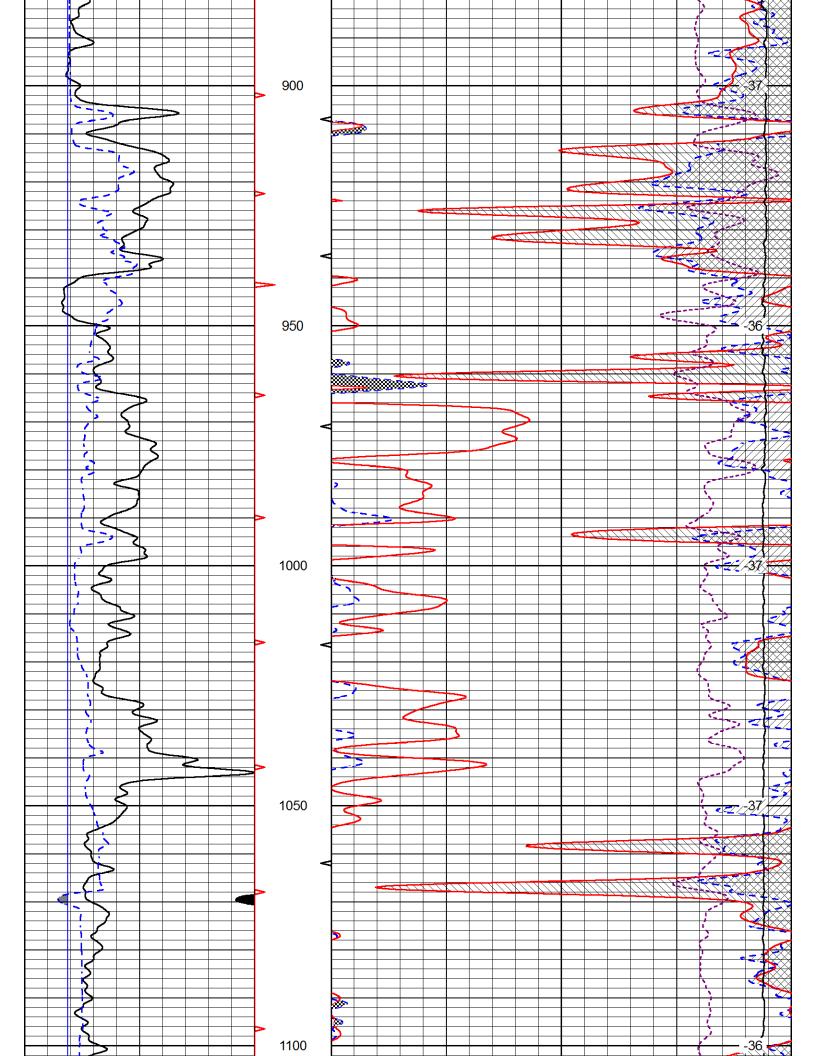
Dataset Creation Thu Apr 28 17:00:34 2016
Charted by Depth in Feet scaled 1:240

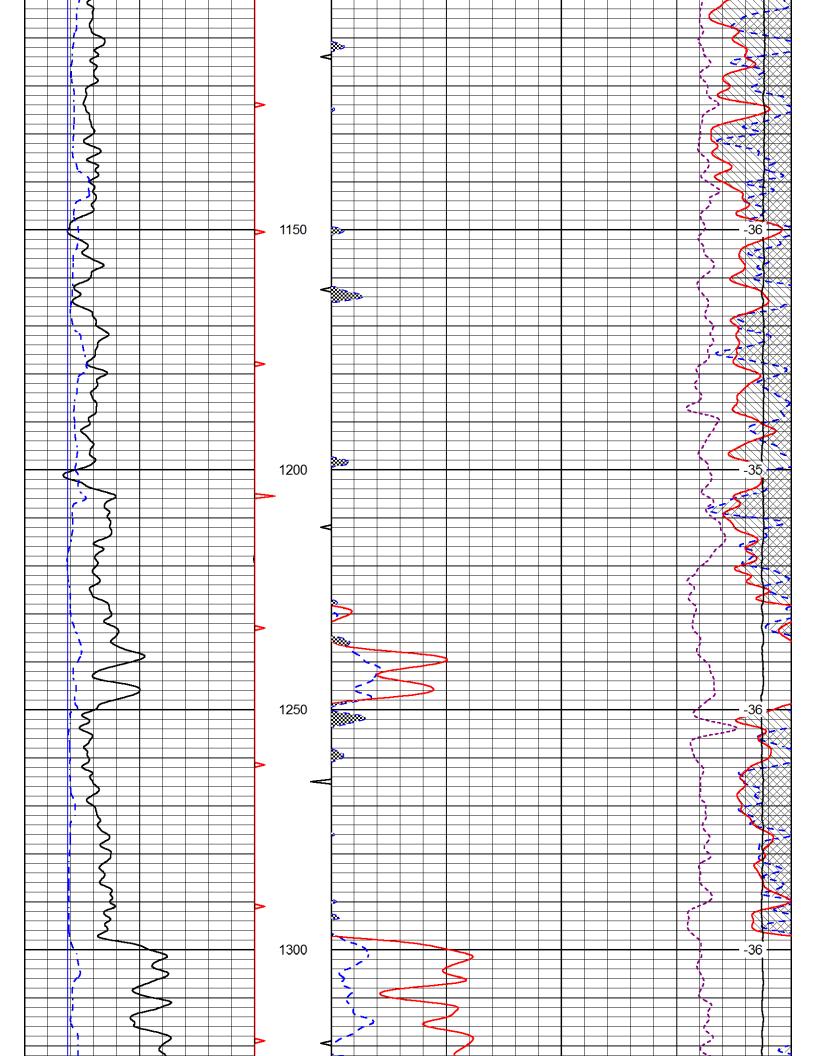
0	GAMMA RAY (GAPI)	150	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	30	COMPENSATED DENSITY (2.71 ma) (nu)	-10

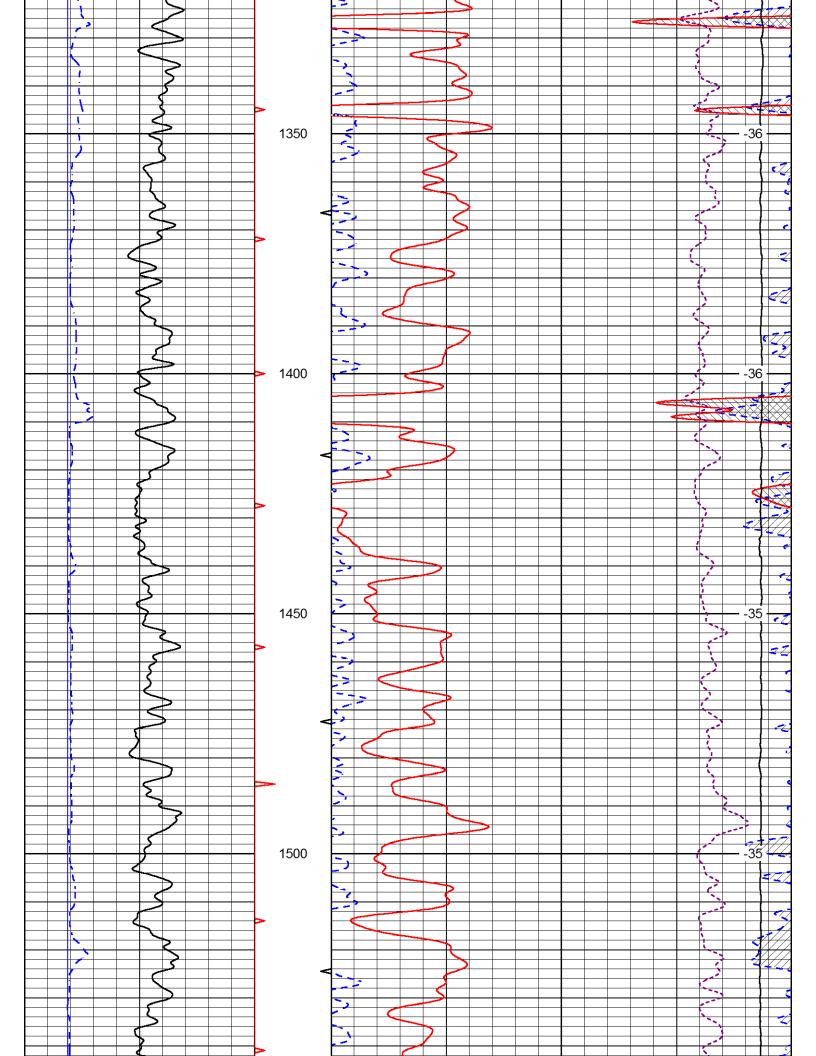


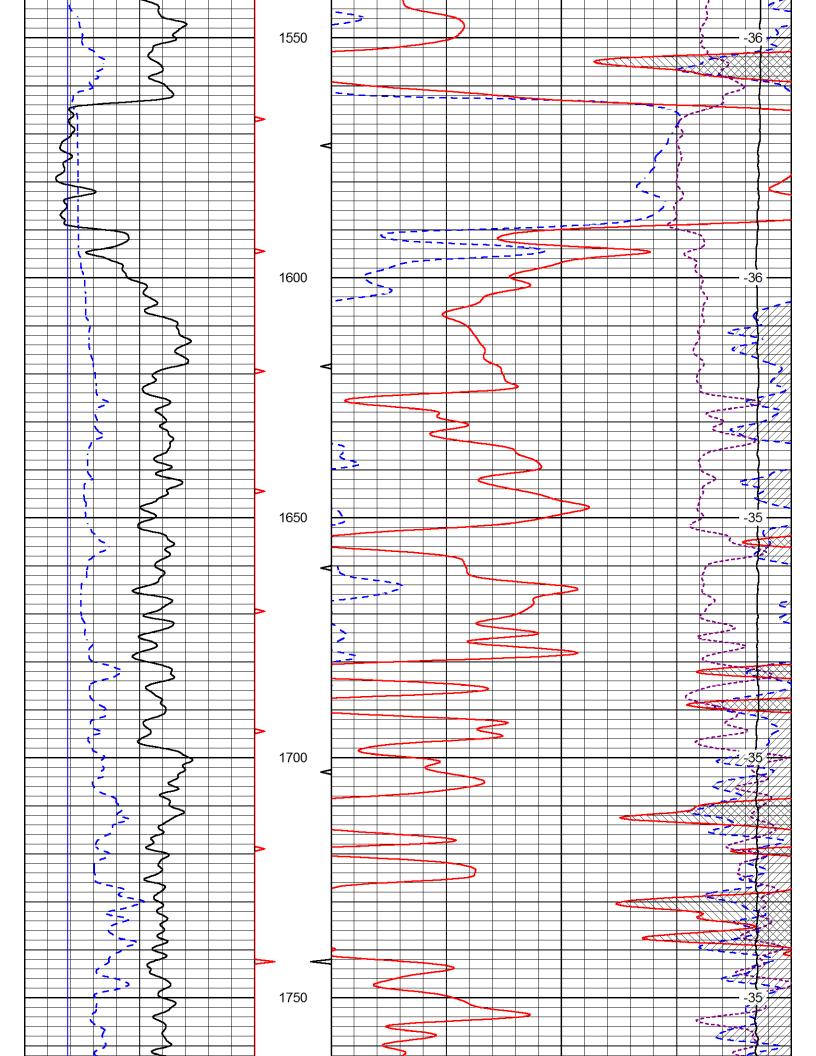


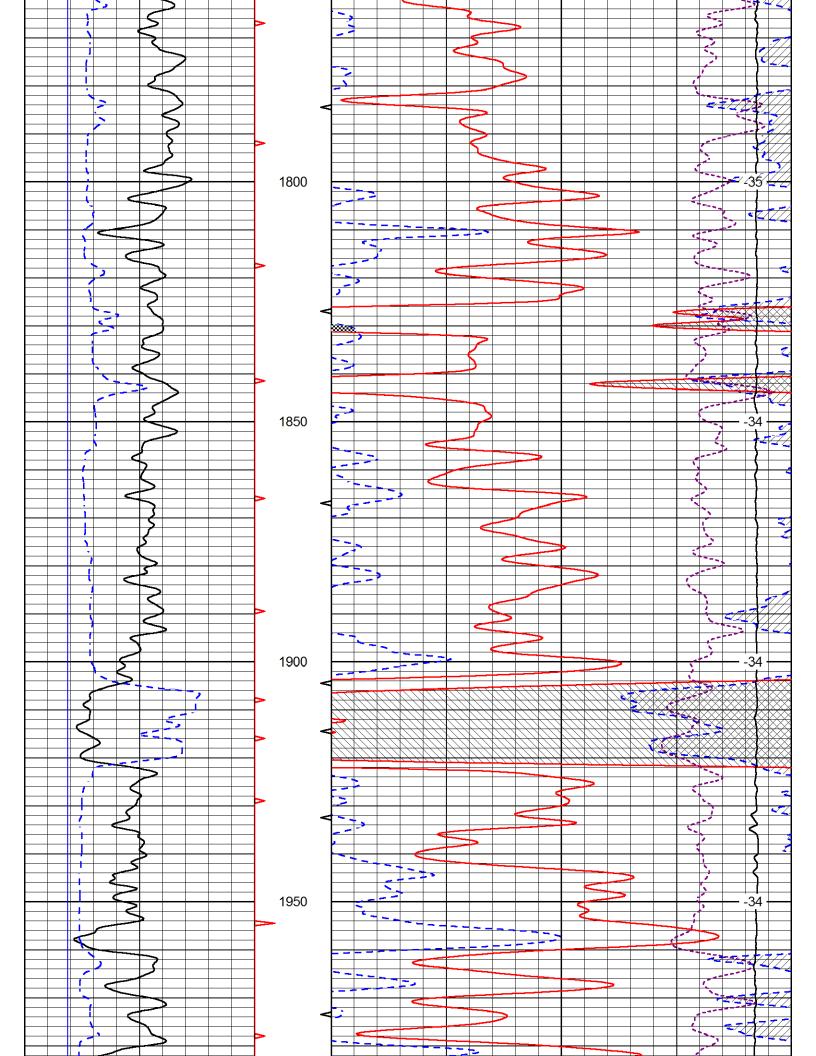


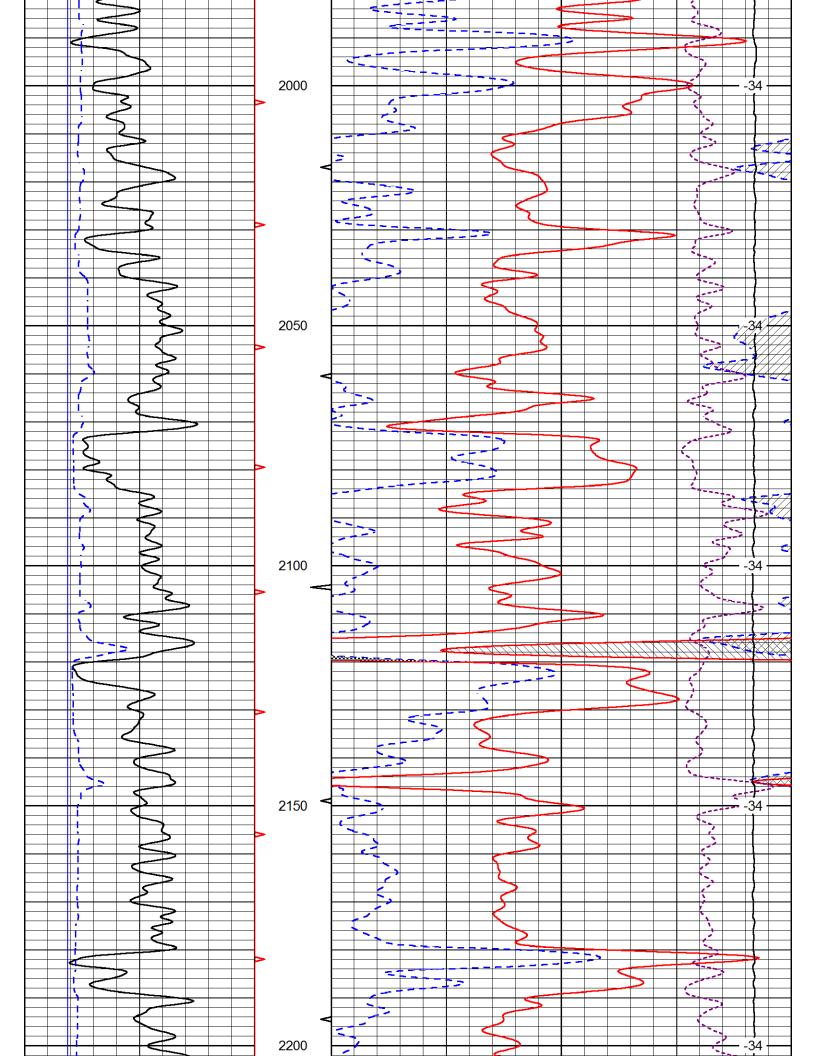


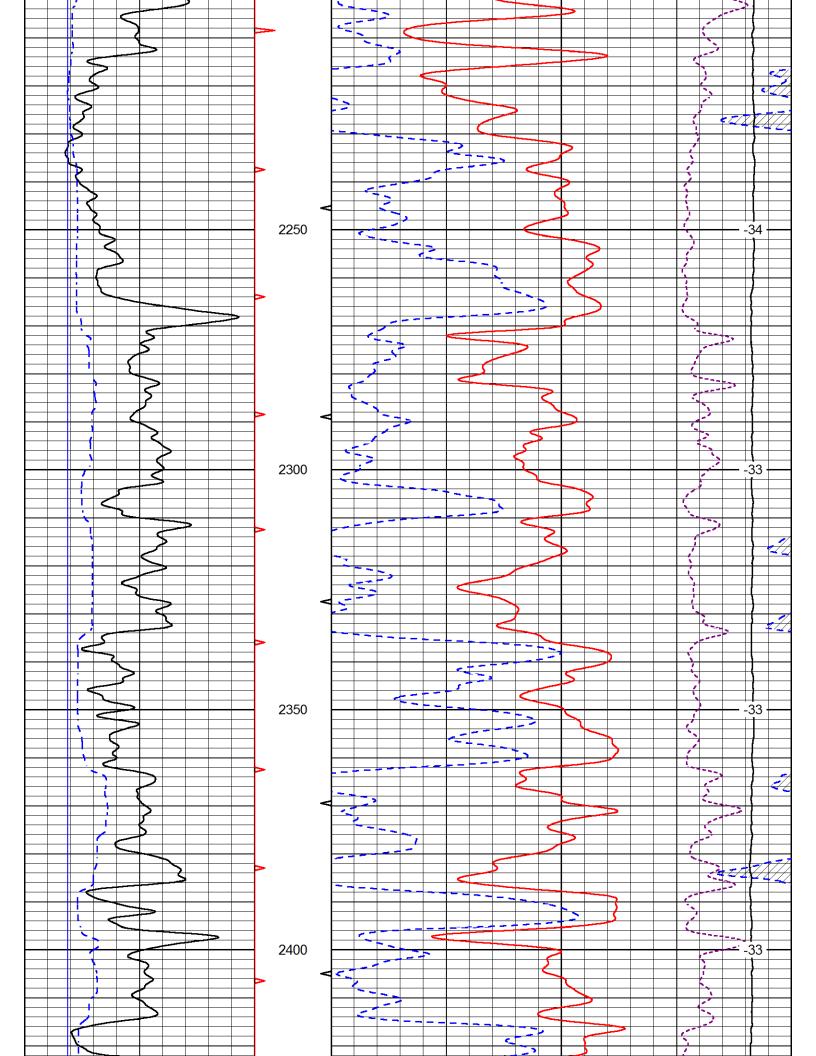


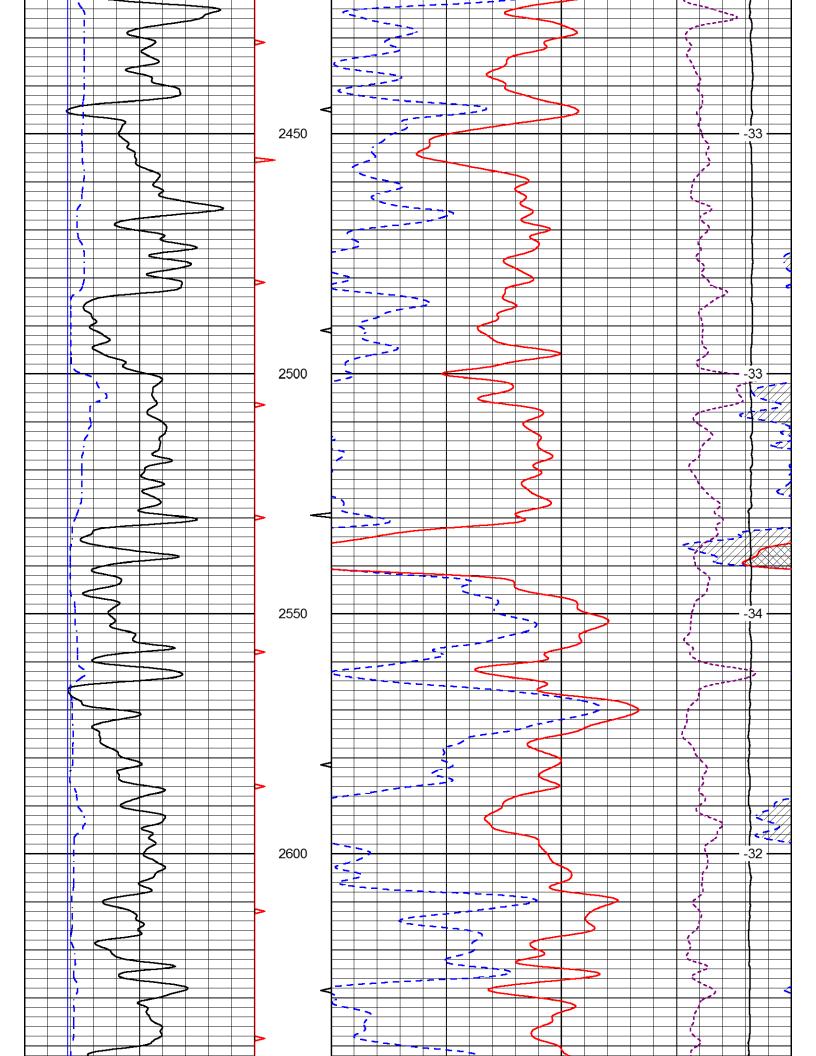


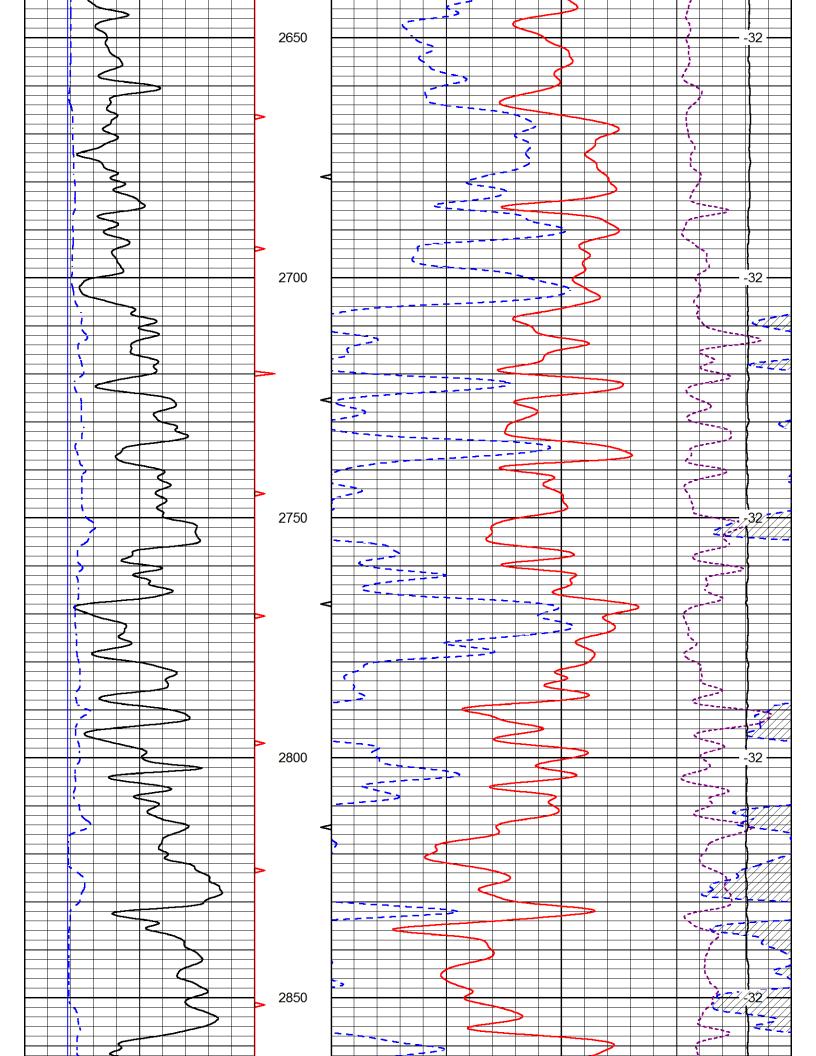


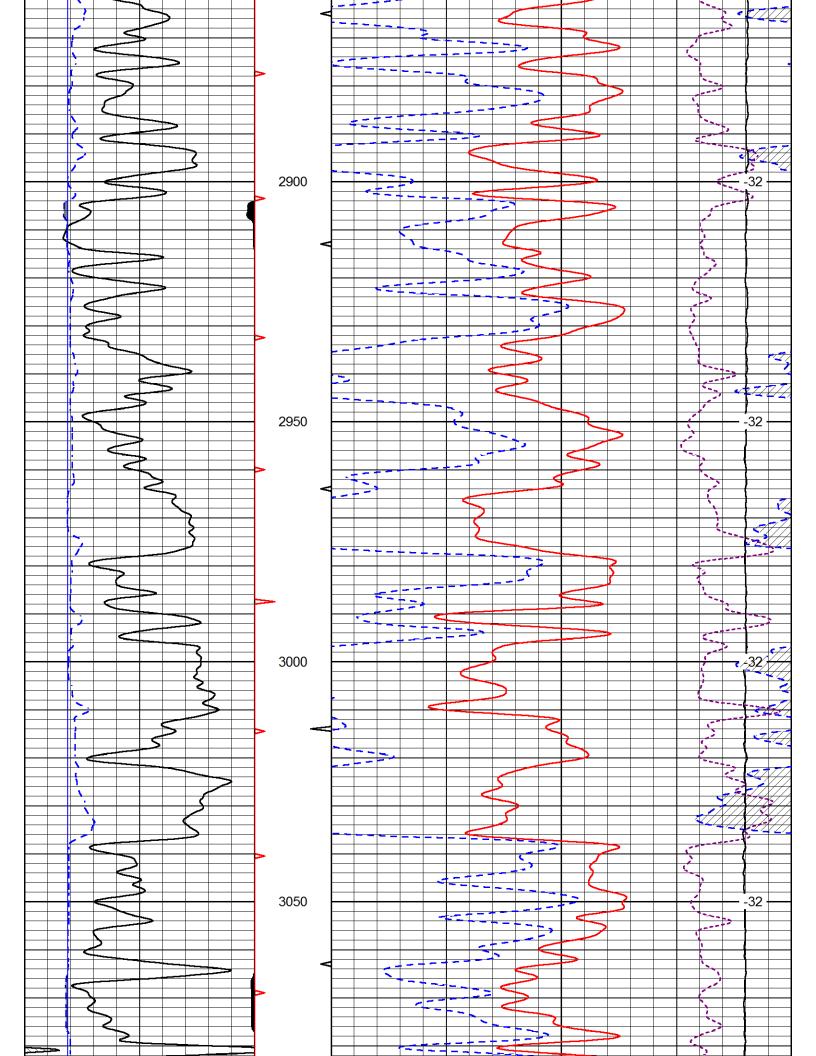


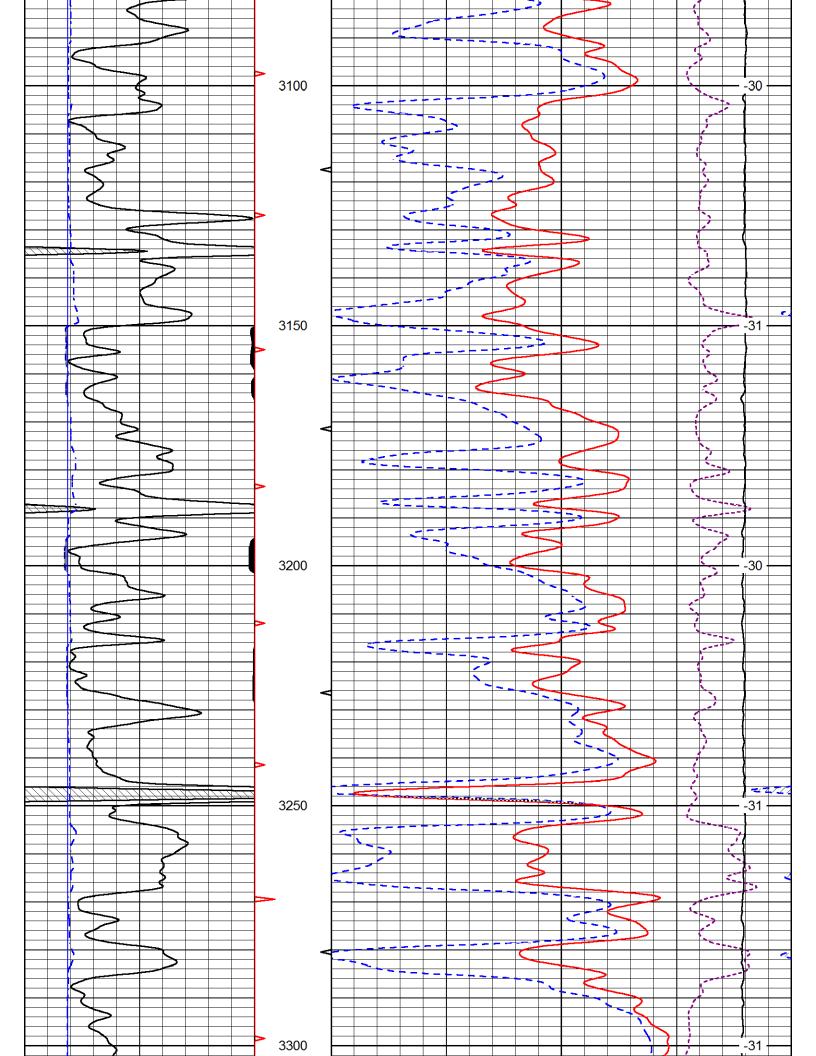


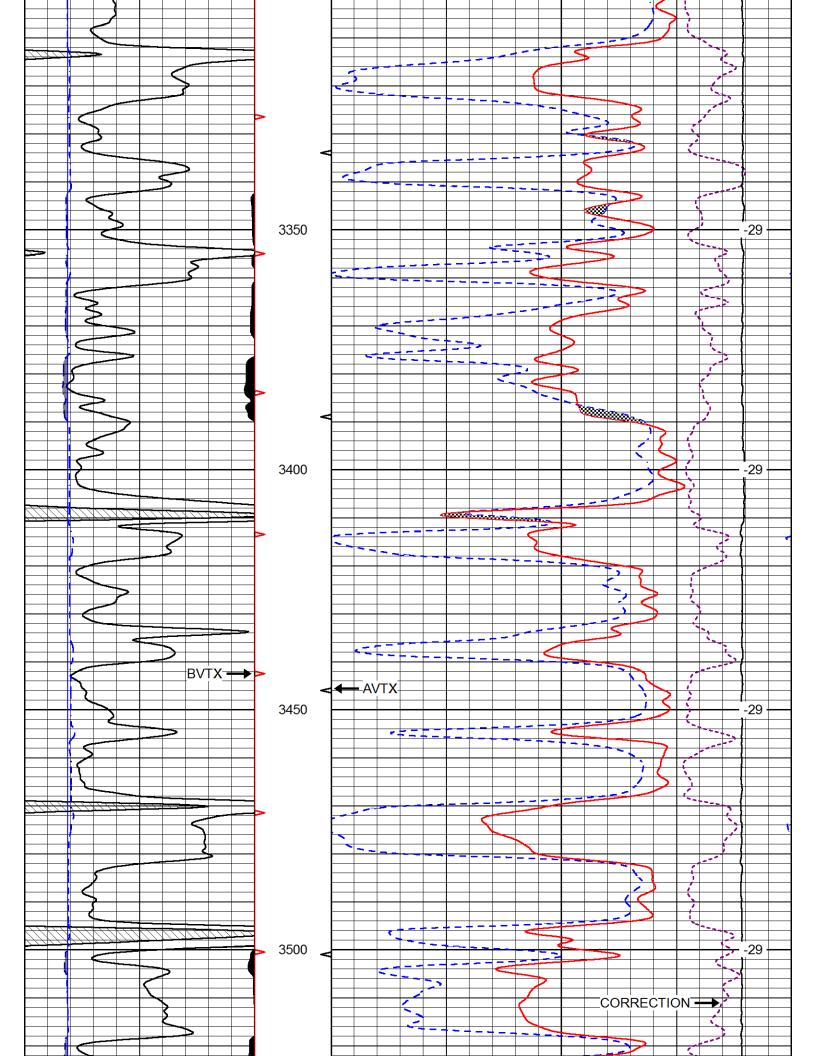


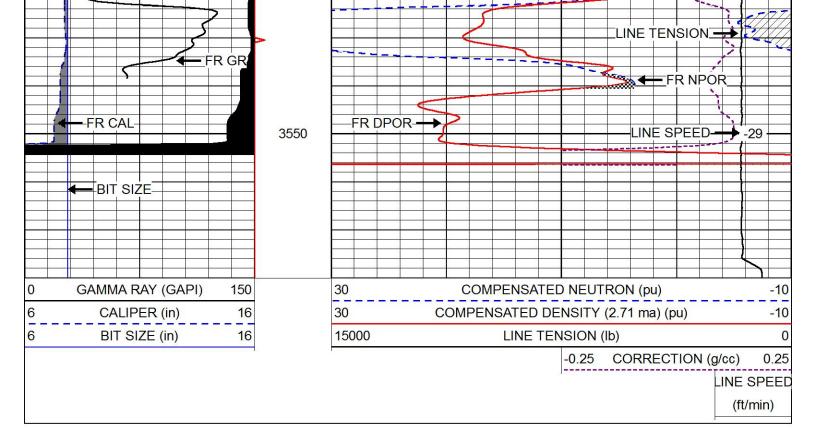














REPEAT SECTION

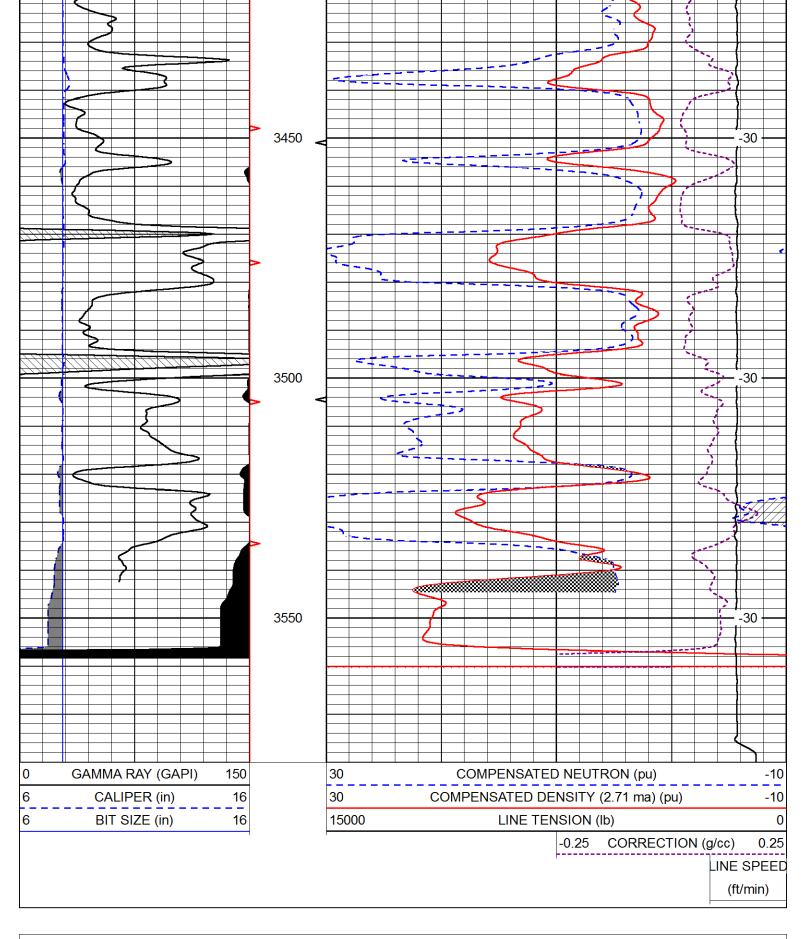
Database File ampatriot_apo_18_wallerlowry_1.db

Dataset Pathname stackmel/pass3.1

Presentation Format cndlspec

Dataset Creation Thu Apr 28 15:55:11 2016
Charted by Depth in Feet scaled 1:240

CI	narred by Deptit III Fee	et staleu 1.24t	<u></u>
0	GAMMA RAY (GAPI) 15	0	30 COMPENSATED NEUTRON (pu) -1
6	CALIPER (in) 10	6	30 COMPENSATED DENSITY (2.71 ma) (pu) -1
6	BIT SIZE (in) 10	6	15000 LINE TENSION (lb)
		9	-0.25 CORRECTION (g/cc) 0.2
			LINE SPEE
			(ft/min)
		3400	30



Calibration Report

Database File
Dataset Pathname
Dataset Creation

Dual Induction Calibration Report

Dual Induction Report

Serial-iviodei: 1987-181888 Calibration Performed: Thu Mar 31 15:53:34 2016 Readings References Results Loop Loop: Air Loop Air Gain Offset Deep 178.615 710.235 0.000 255.800 mmho/m 0.530 -38.000 Medium 1441.110 0.000 255.800 0.440 -110.500 161.982 mmho/m Microlog Calibration Report Serial-Model: PSI-02-PSI STKBL ML Performed: Thu Apr 14 22:34:04 2016 Readings References Results Zero Cal b Zero Cal m 0.0031 0.0043 0.0000 10.0000 10308.9000 Normal -0.2000Ohm-m 0.0013 0.0000 10.0000 0.4000 Inverse 0.0000 Ohm-m 7967.2700 1.0834 5.5000 Caliper 1.0020 16.5000 in 135.1560 -131.1700 Compensated Density Calibration Report Serial-Model: 71-914-M&W Source / Verifier: Master Calibration Performed: Thu Mar 31 16:30:19 2016 Master Calibration **Near Detector** Density Far Detector Magnesium 1.755 4314.49 5307.52 g/cc cps Aluminum 2.670 g/cc 822.19 3456.36 cps Spine Angle = 75.49 Density/Spine Ratio = 0.534 Reading Size Small Ring 4.00 1.16 in Large Ring 14.00 1.57 in Compensated Neutron Calibration Report Serial Number: tk10-MW Tool Model: M&W Calibration Performed: Wed Mar 30 10:04:05 2016 Detector Readings **Target** Normalization Short Space 6240.00 1.6025 cps 1000.00 cps Long Space 460.00 1000.00 1.9500 cps cps Gamma Ray Calibration Report Serial Number: 89-M&W Tool Model: M&W Calibration Performed: Thu Mar 31 15:29:33 2016

1000.0

Calibrator Value:

GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps
Sensitivity: 0.5200 GAPI/cps

County

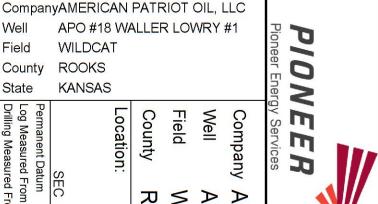


Company AMERICAN PATRIOT OIL, LLC
Well APO #18 WALLER LOWRY #1

Well APO #18 WALLER LOWRY #1
Field WILDCAT

ROOKS

State KANSAS



DUAL INDUCTION

Run Number Field County State Drilling Measured From Company AMERICAN PATRIOT OIL, LLC WILDCAT APO #18 WALLER LOWRY #1 1,670' FNL & 931' FWL 4/28/2016 TWP 8S KELLY BUSHING API#: 15-163-24312-00-00 **GROUND LEVEL** RGE 19W Elevation State KANSAS Other Services Elevation 2048' N/A 2040'

<<< Fold Here >>>

Rmc @ Meas. Temp Source of Rmf / Rmc

1.01

.75

888

8 8 8

44

(8)

112

CHARTS

2 1/2 HOURS

Rmf @ Meas. Temp

Rm @ Meas. Temp

Source of Sample pH / Fluid Loss

Operating Rig Time Rm @ BHT

Equipment Number Max Rec. Temp. F

Location

Witnessed By Recorded By

MARC DOWNING

COLBY J. LONG

112

Salinity,ppm CL

Type Fluid in Hole

CHEMICAL

4800

7.875"

Density / Viscosity

10.5

7.2 62

FLOWLINE

Bit Size

Bottom Logged Interval

Casing Driller

8.625"

263

@ 262'

3575' 00'

3576 3578

Top Log Interval

Casing Logger

Depth Logger Depth Driller

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. DAMAR, 5 EAST, 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

785-625-3858 www.pioneeres.com

Your Pioneer Energy Services Crew This Log Record Was Witnessed By Engineer: J. LONG **Primary Witness:** MARC DOWNING Operator: T. MARTIN Secondary Witness: Operator: Secondary Witness: Secondary Witness: Operator:

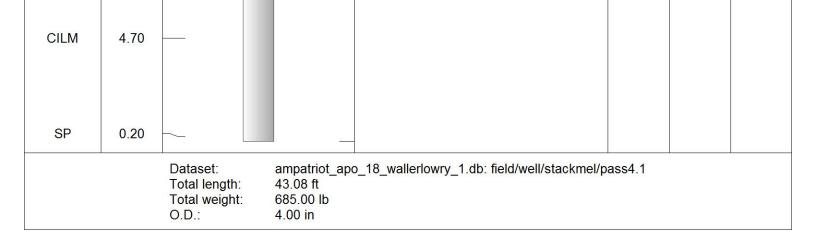
Log Variables

DatabaseC:\ProgramData\Warrior\Data\ampatriot_apo_18_wallerlowry_1.db
Dataset field/well/stackmel/pass4.1/_vars_

Top - Bottom

	Top - Bottom										
Α	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	М	MATRXDEN g/cc				
1	7.875	112	5.5	0	1	2	2.71				
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft				
Limestone	0	0	0	-620	54	Off	3576				

Sensor	Offset (ft)	Schematic	Description —	Length (ft)	O.D. (in)	Weight (
GR	40.58	_	——GR-M&W (89-M&W) —	3.00	3.50	50.00
ENLSC ENSSC	37.48 — 36.73 —		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (71-914)	8.50	4.00	250.0
MON	40.00		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83					
RLL3 RLL3F	15.80 15.79					
CILD	8.00		——DIL-M&W (1987)	18.50	3.50	220.0





MAIN PASS

2" SCALE RESISTIVITY

CONDUCTIVITY (mmho/m)

Database File ampatriot_apo_18_wallerlowry_1.db

150

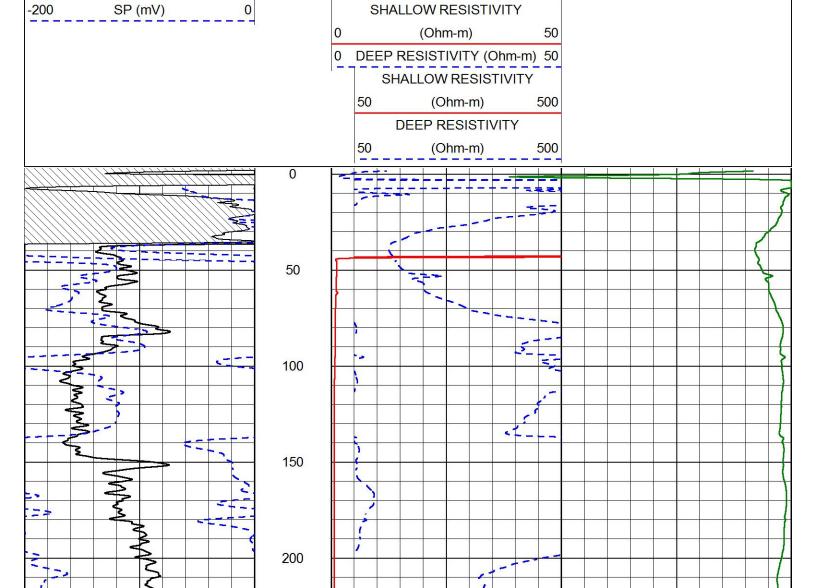
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Presentation Format dil2in

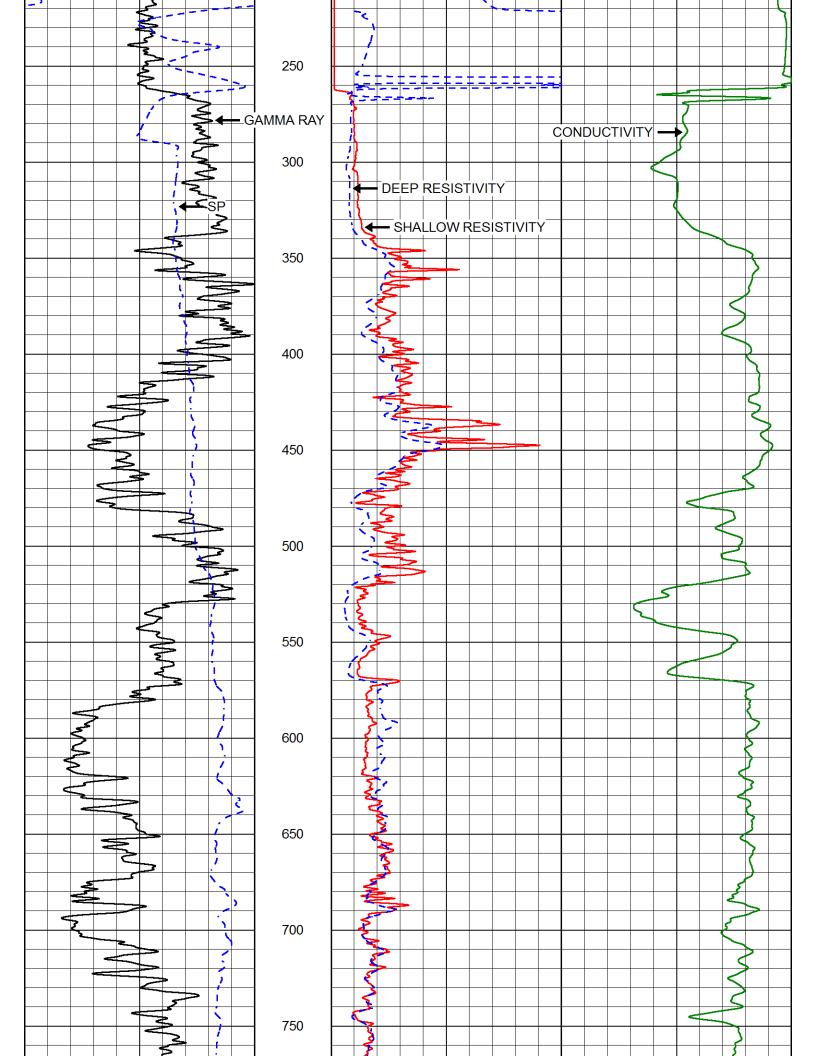
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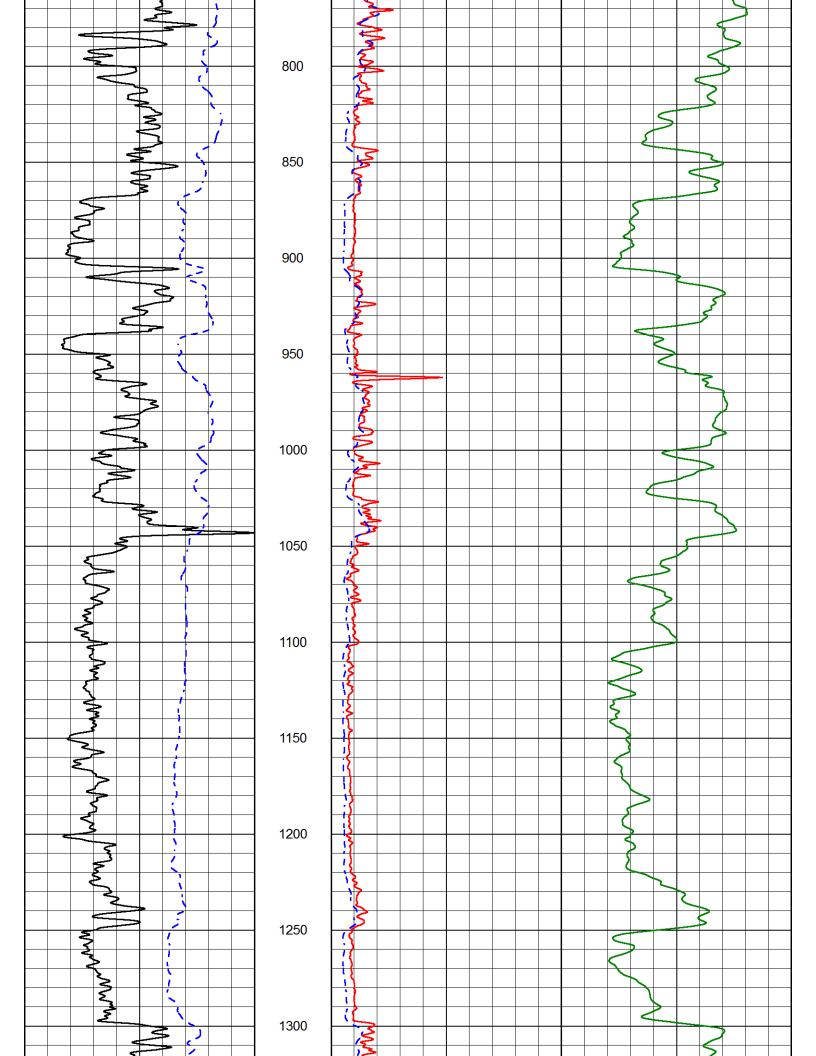
GAMMA RAY (GAPI)

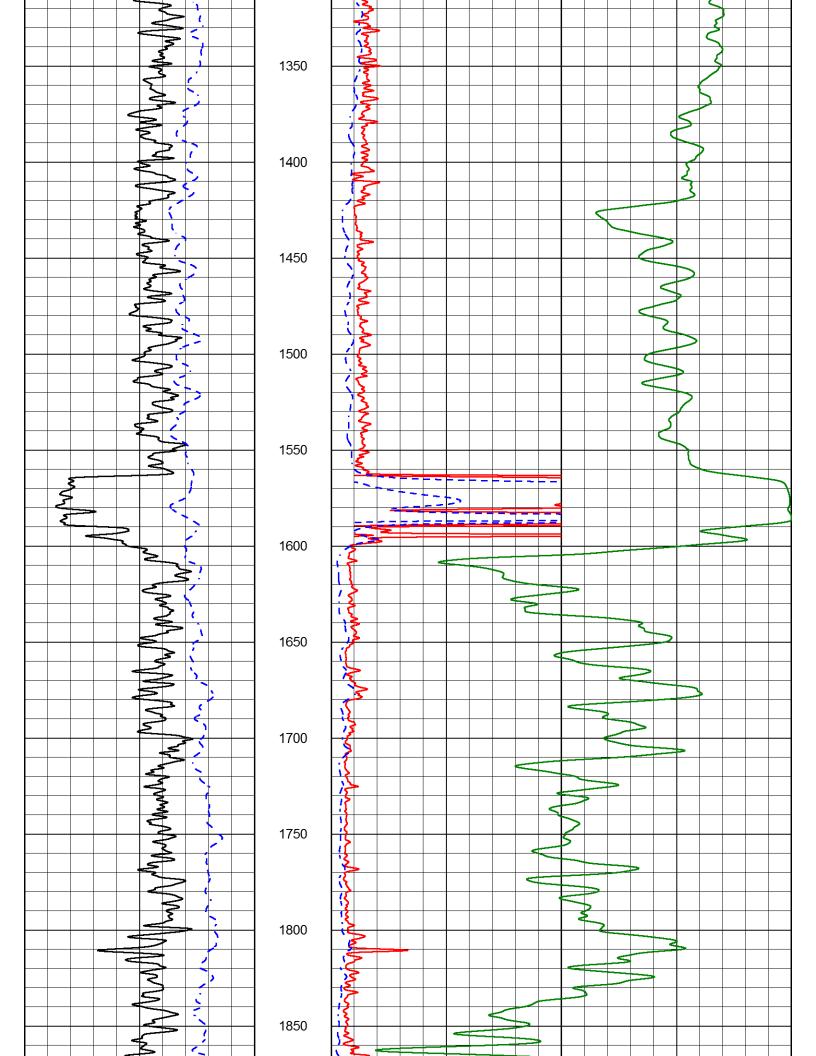
Dataset Creation Thu Apr 28 17:01:04 2016 Charted by Depth in Feet scaled 1:600

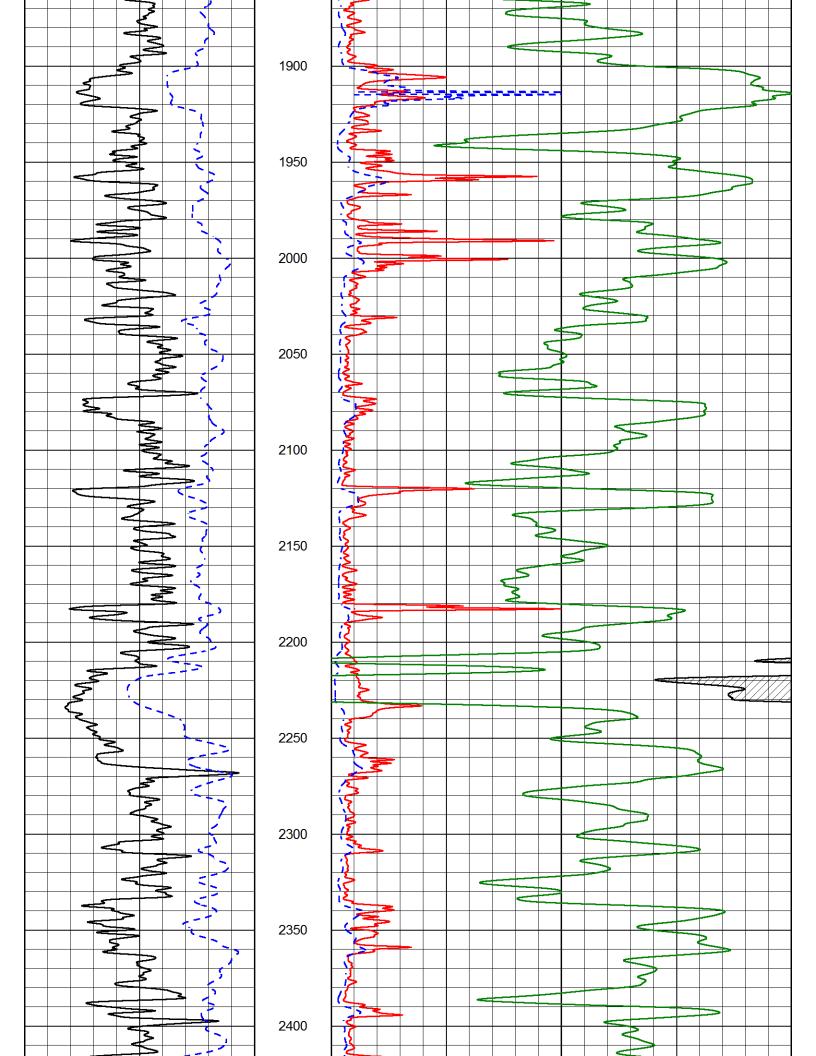


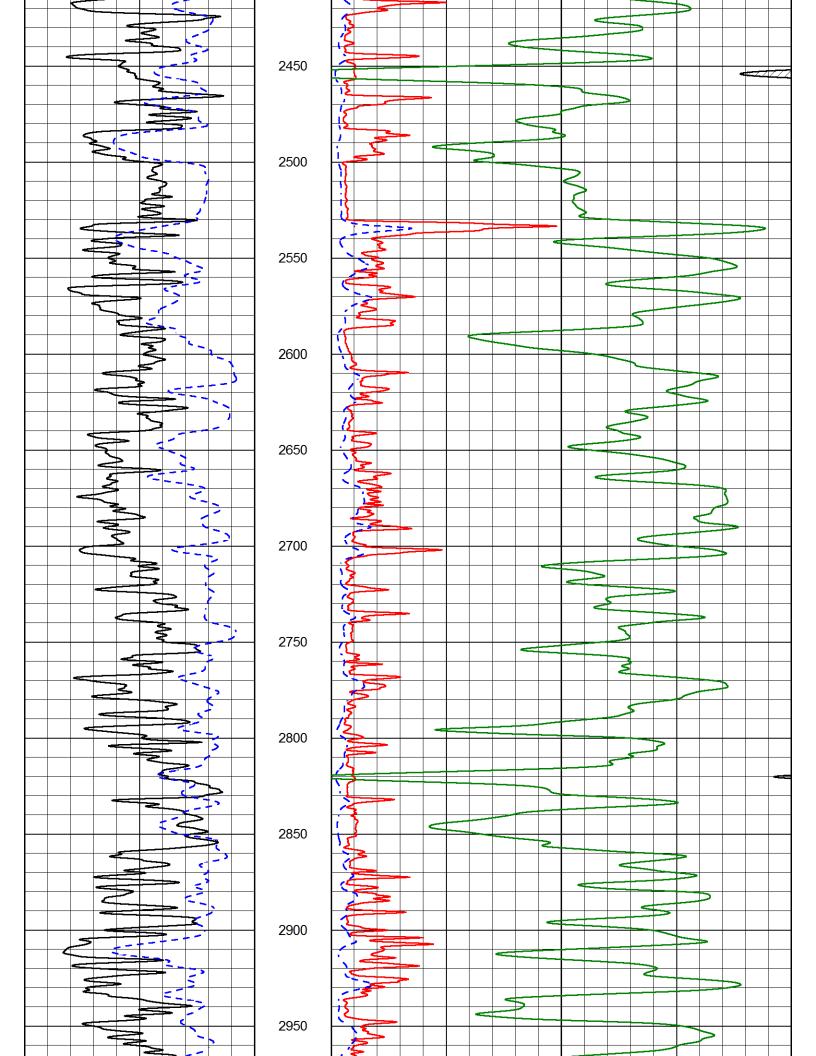
1000

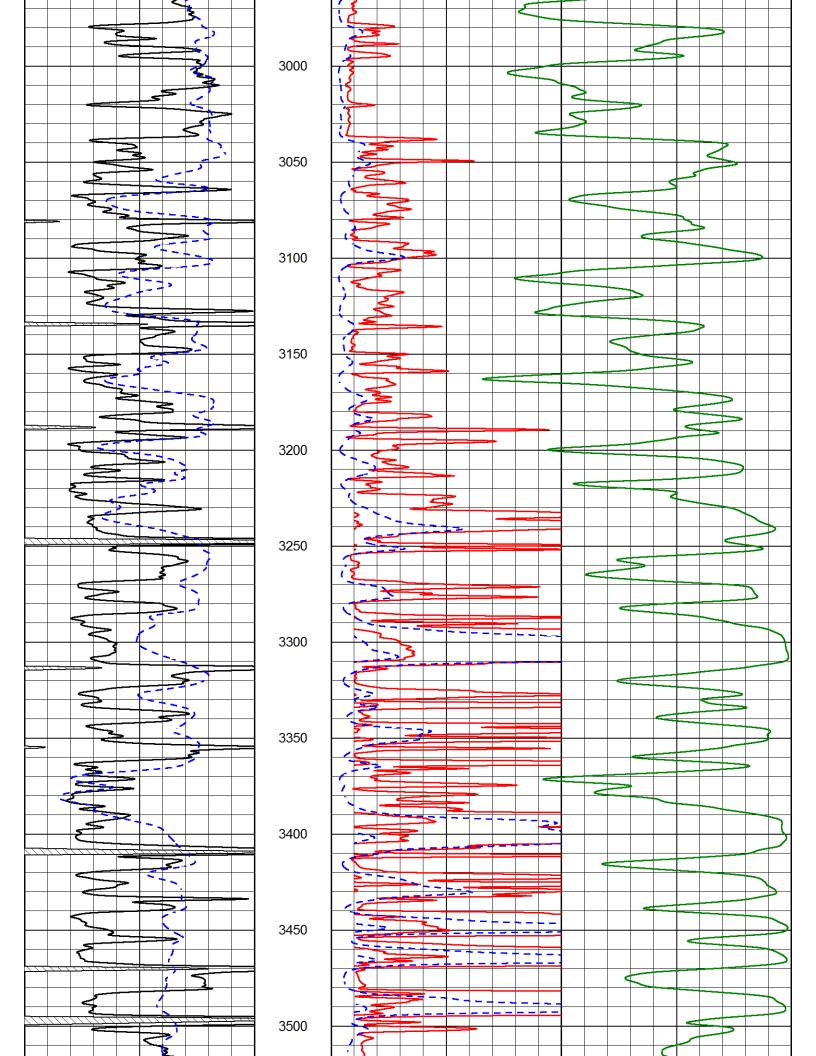


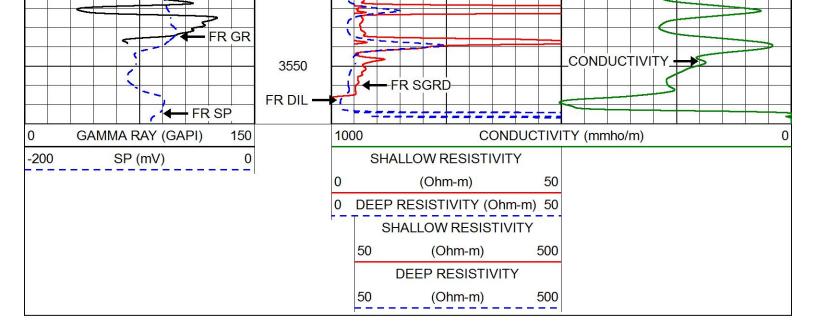














MAIN PASS

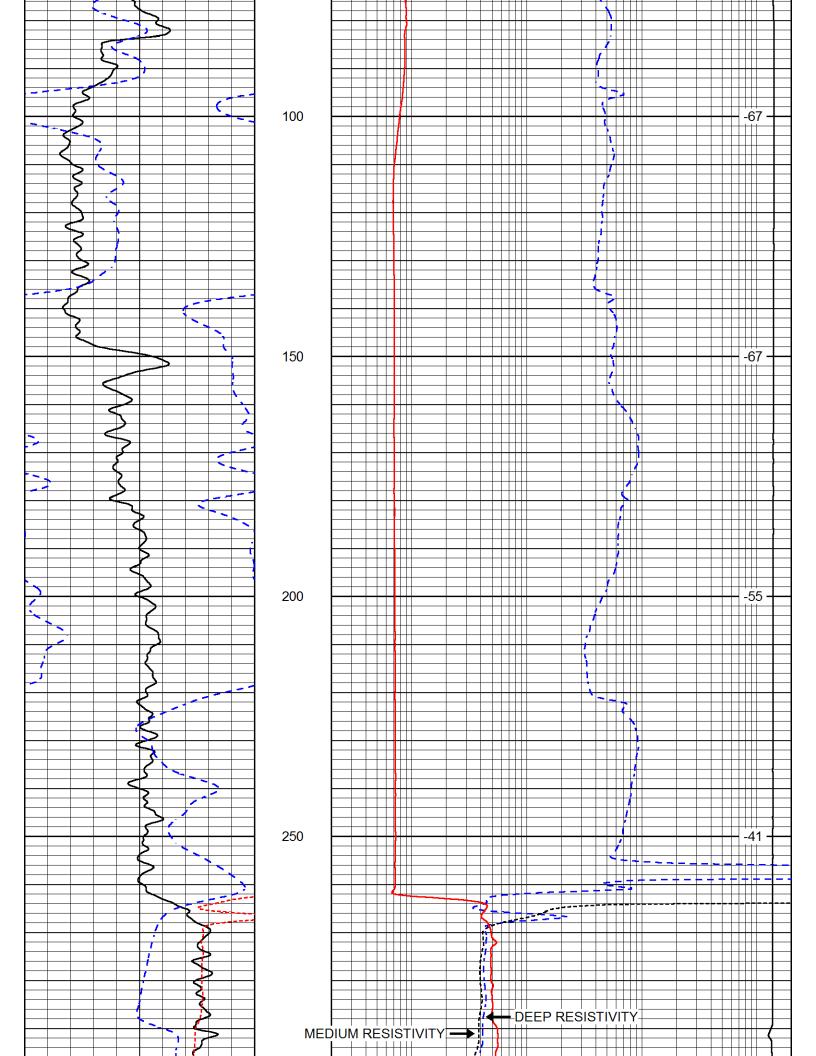
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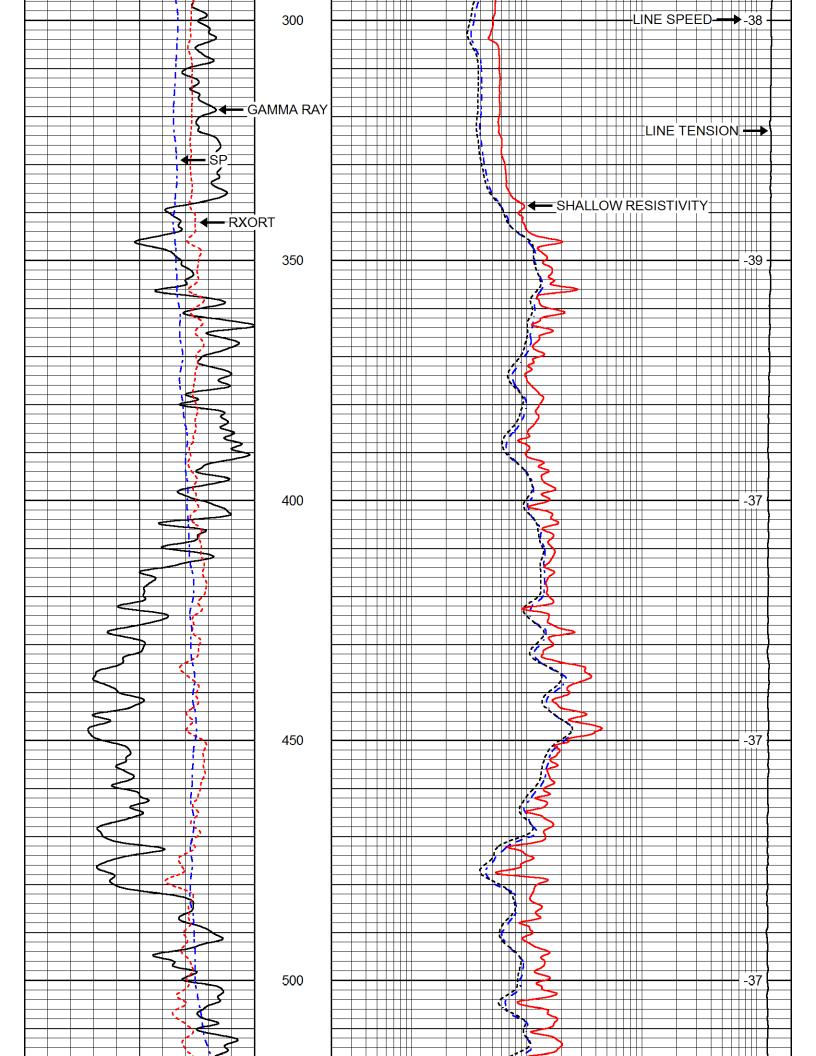
stackmel/pass4.1 Dataset Pathname

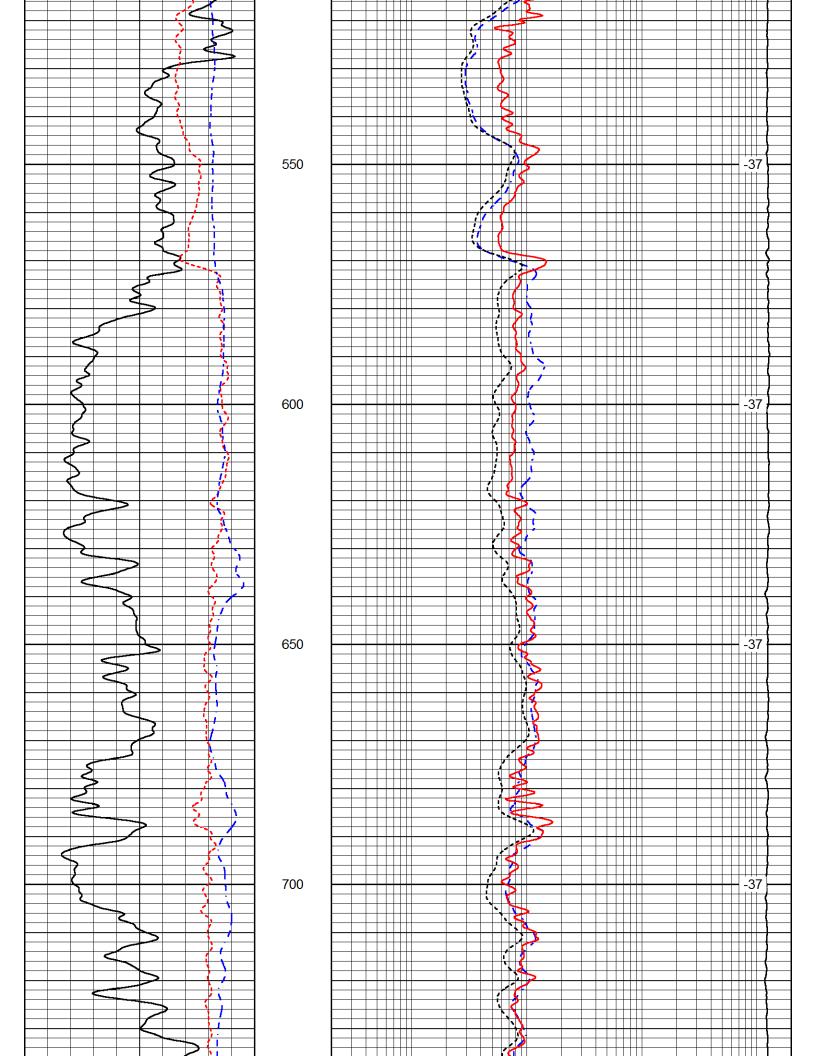
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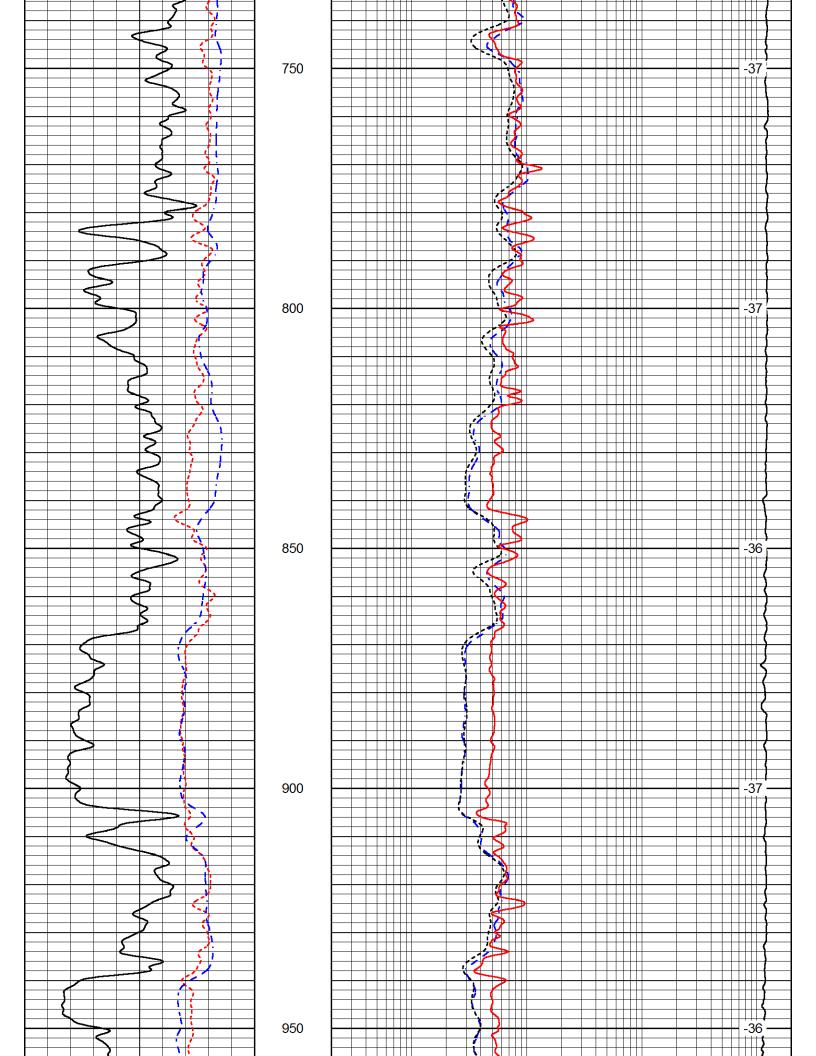
Thu Apr 28 17:00:34 2016 **Dataset Creation** Depth in Feet scaled 1:240 Charted by

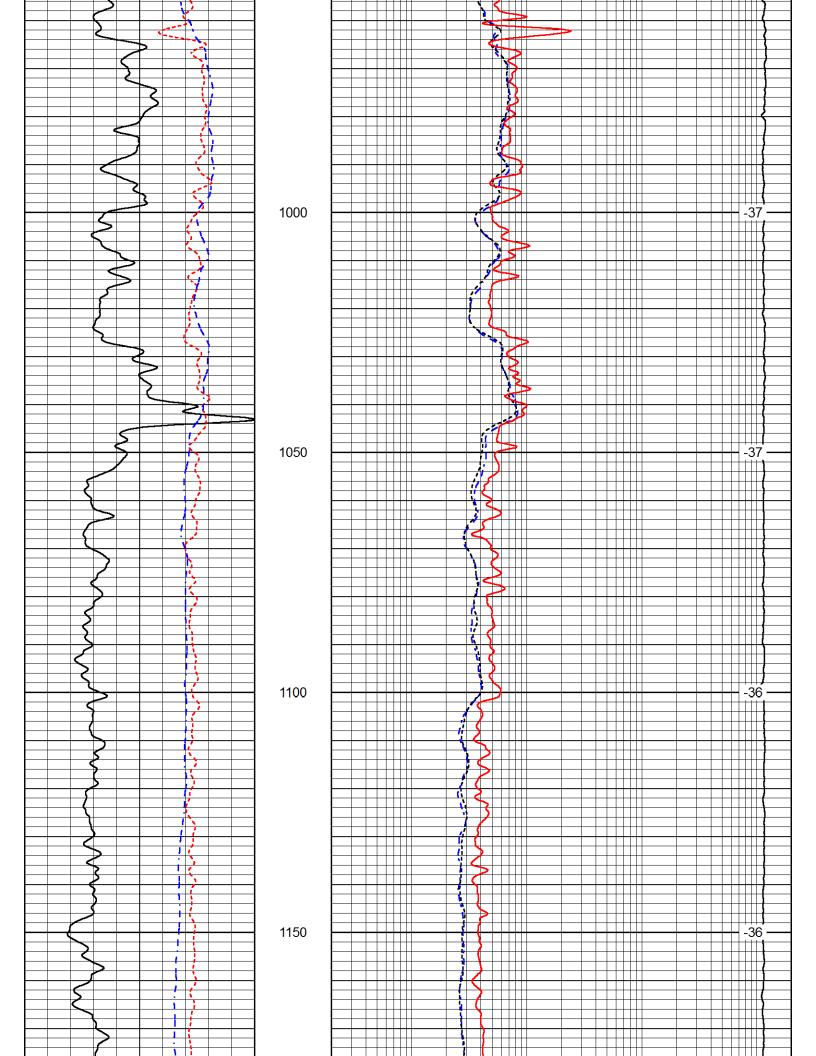
0	GAMMA RAY (GAPI)	150		0.2	DEEP RESISTIVITY (Ohm-m)	2000
-160	RX / ORT	40		0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0		0.2	SHALLOW RESISTIVITY (Ohm-m)	2000
				1500	0 LINE TENSION (lb)	0
						INE SPEED
						(ft/min)
			50			-62

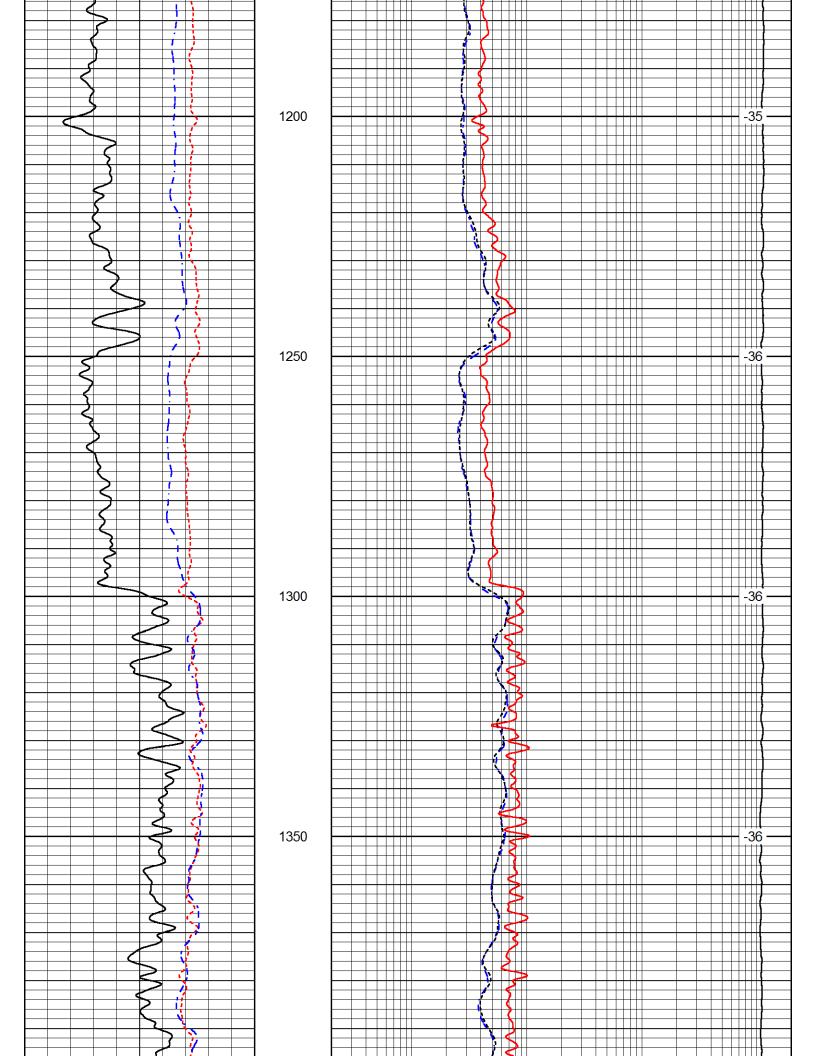


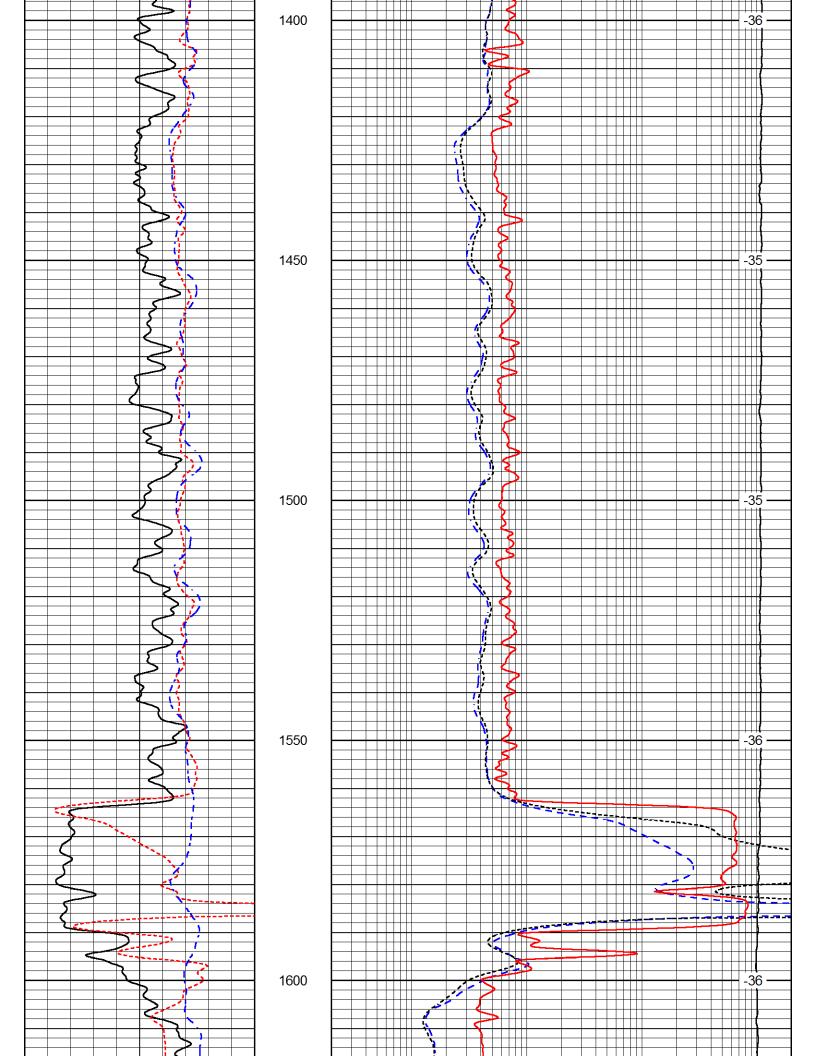


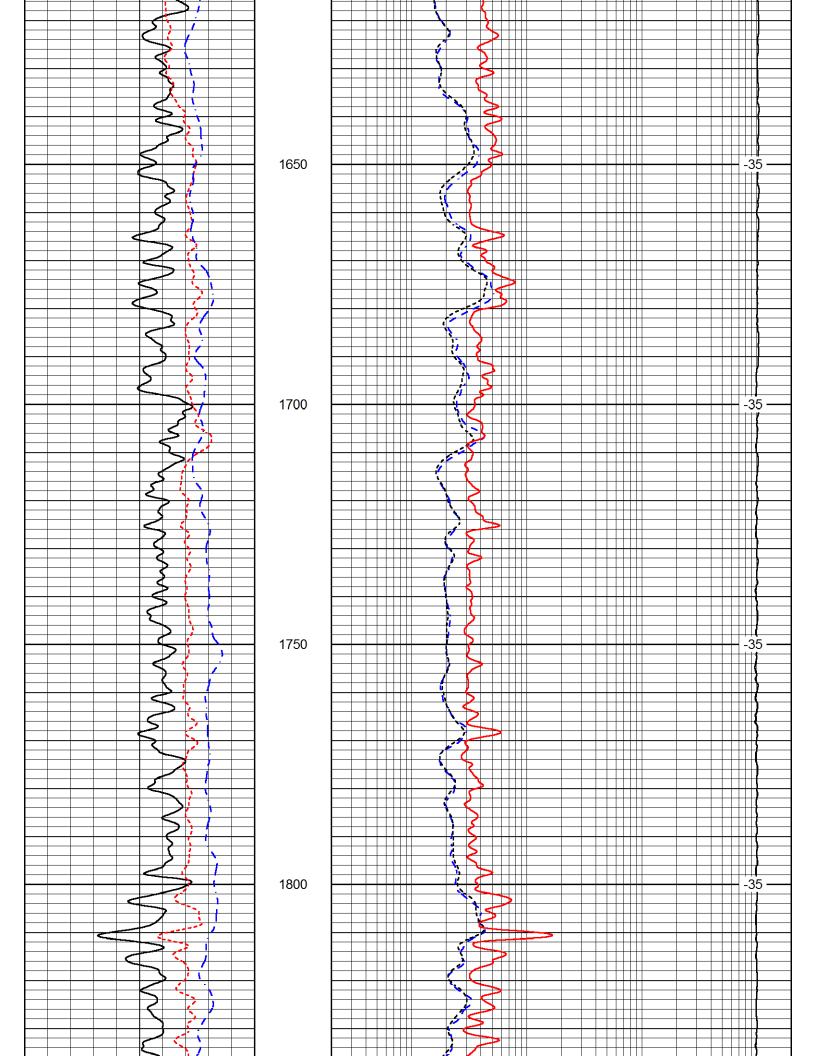


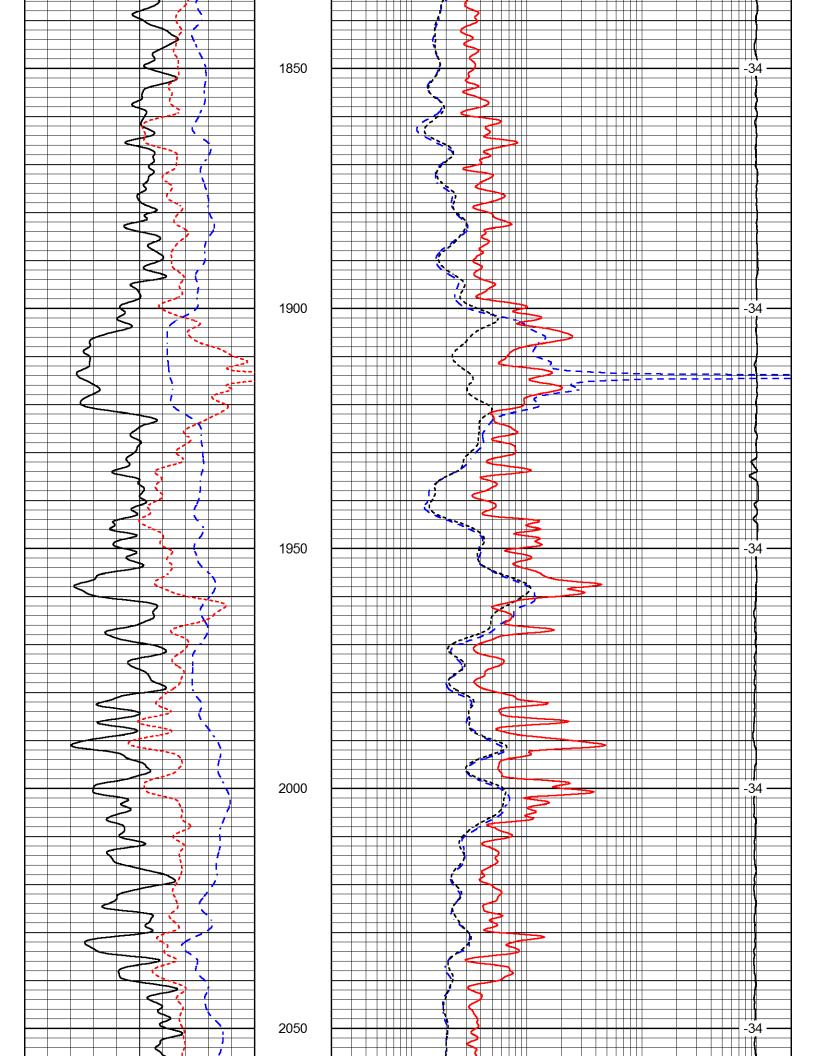


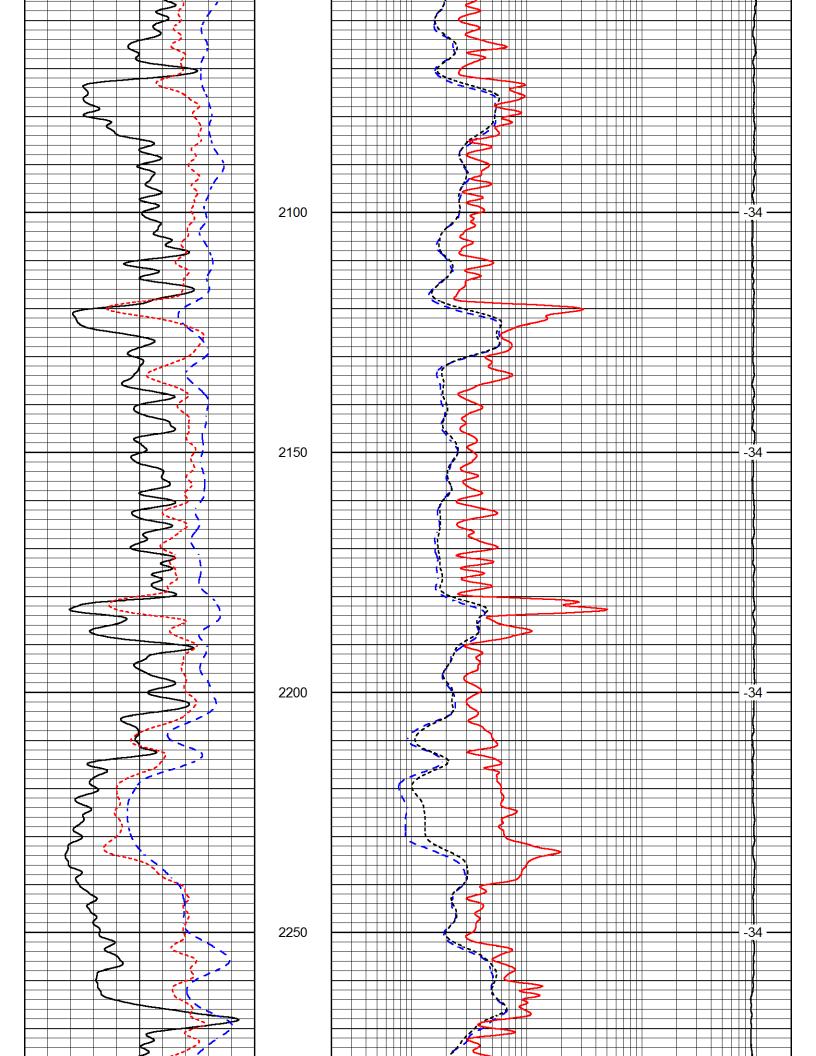


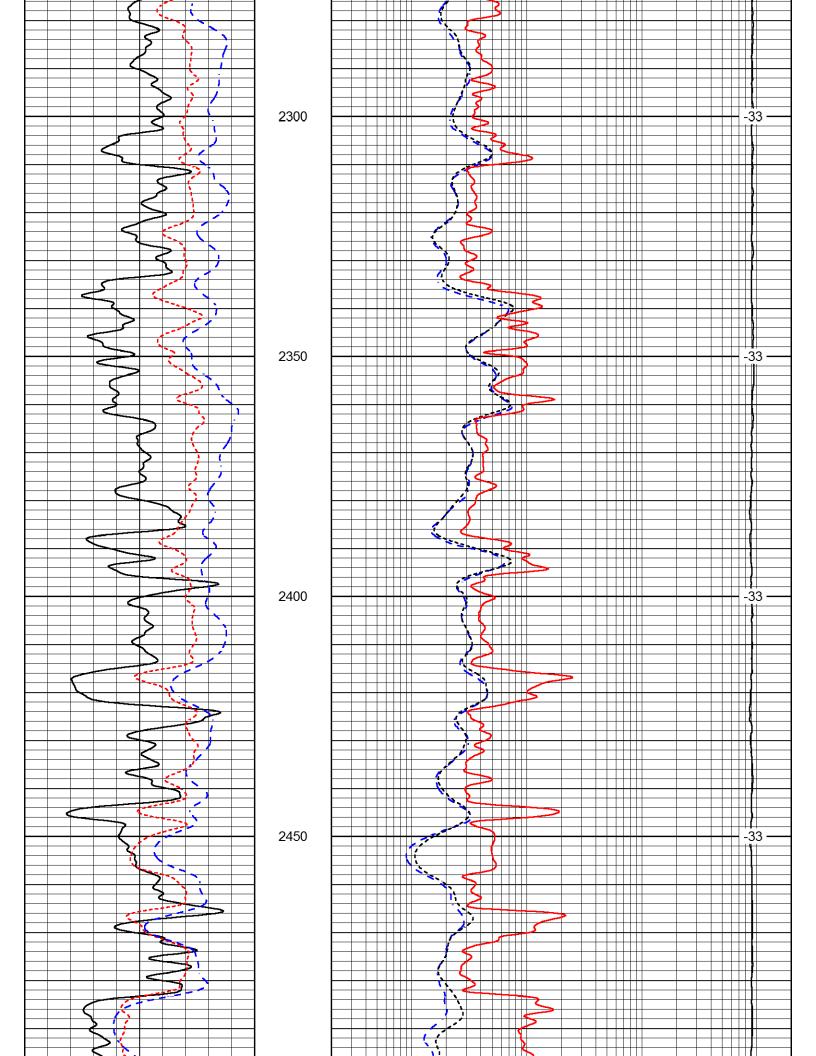


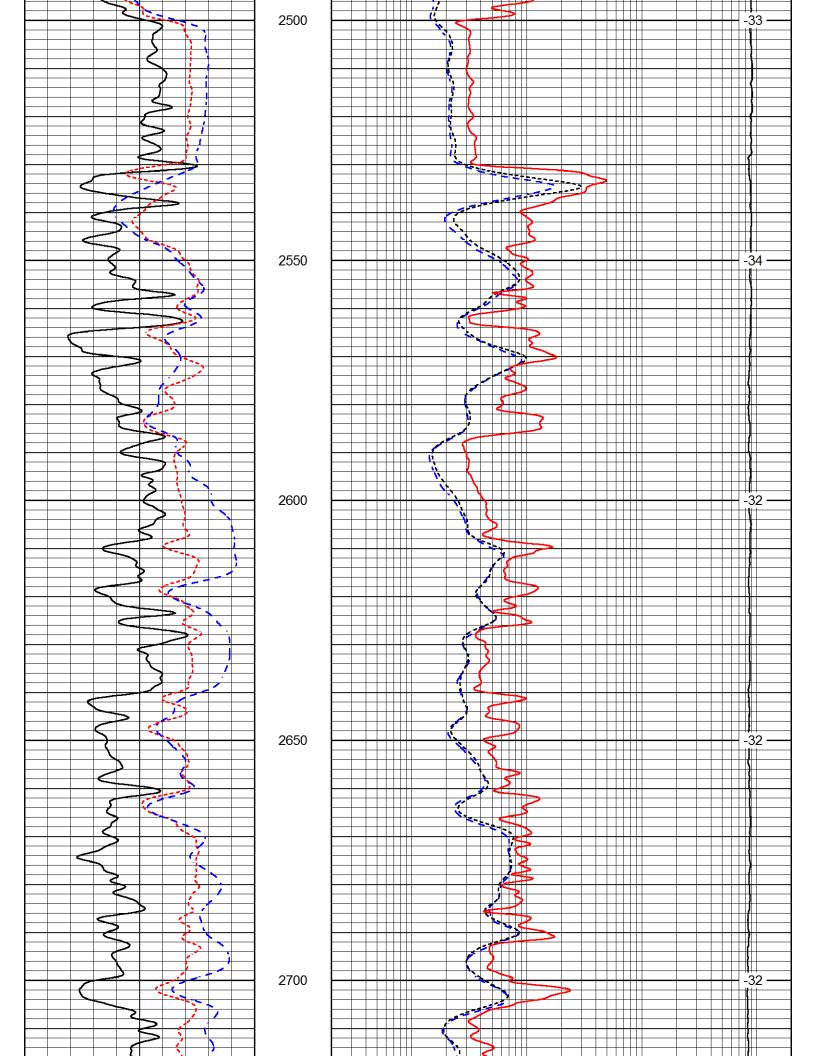


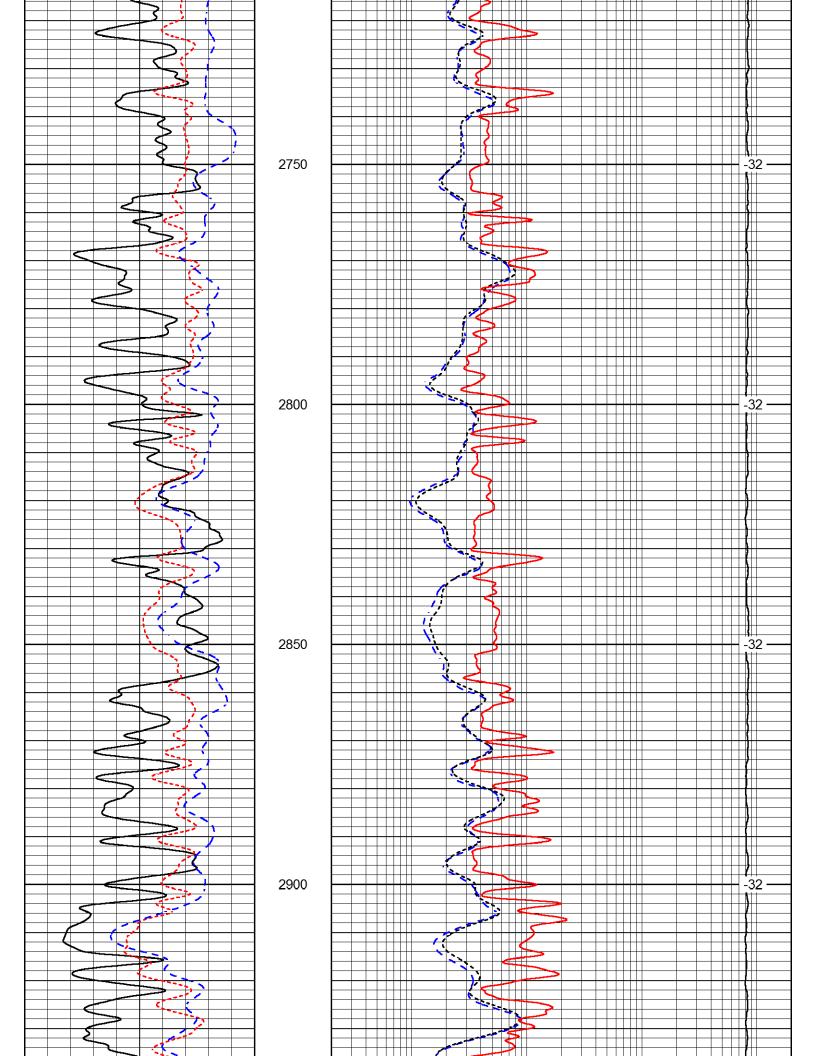


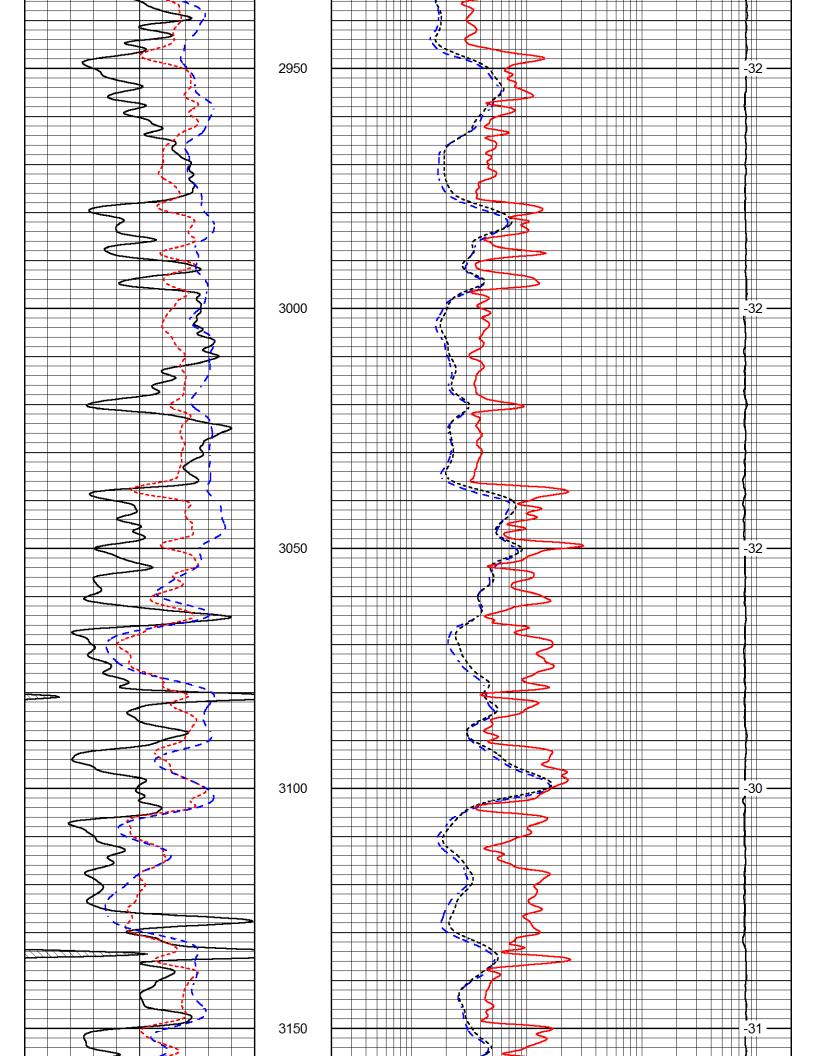


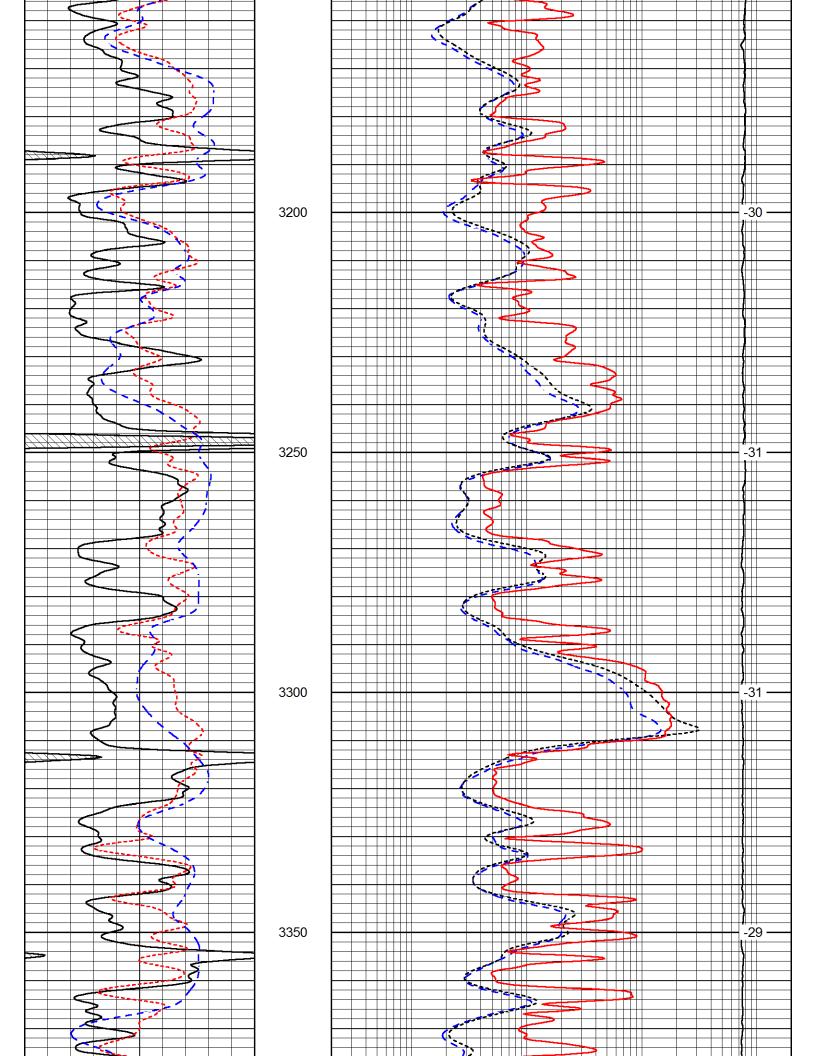


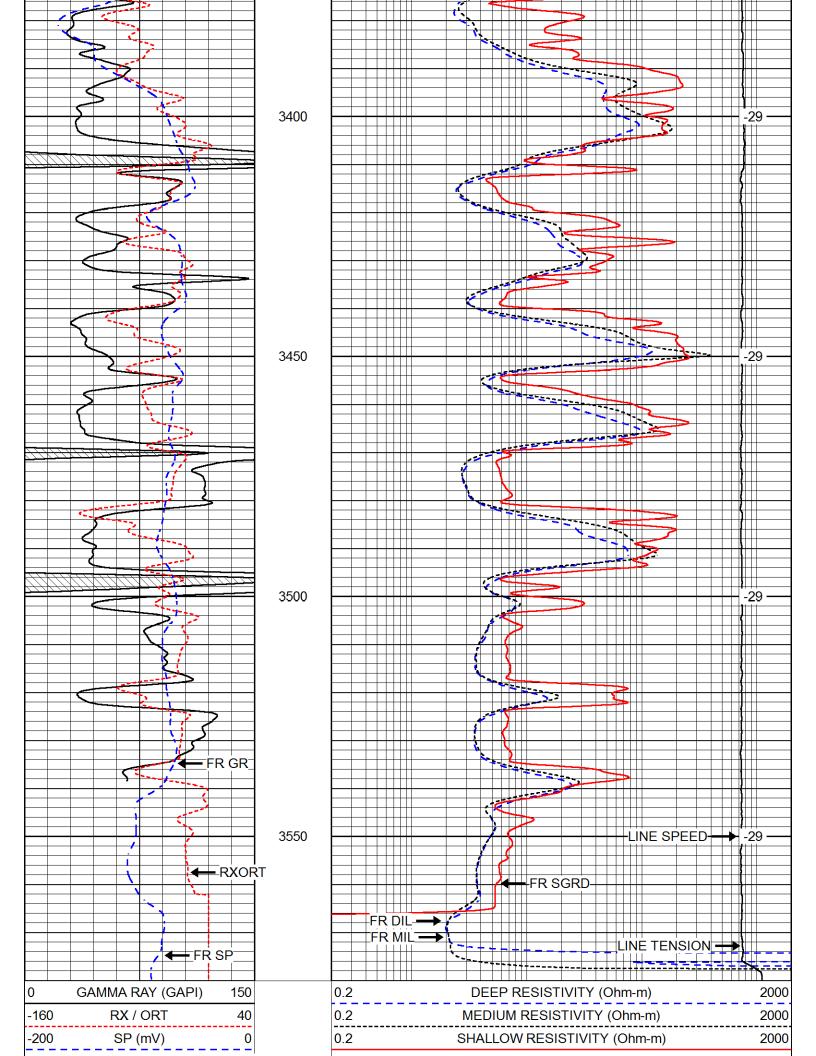












15000 LINE TENSION (lb)

LINE SPEED (ft/min)



REPEAT SECTION

Database File ampatriot_apo_18_wallerlowry_1.db

Dataset Pathname stackmel/pass3.1

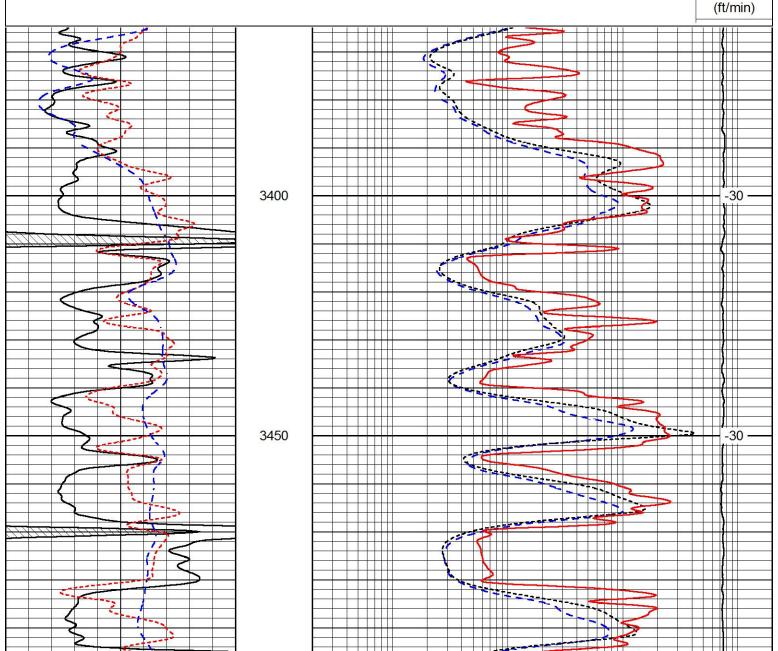
Presentation Format di

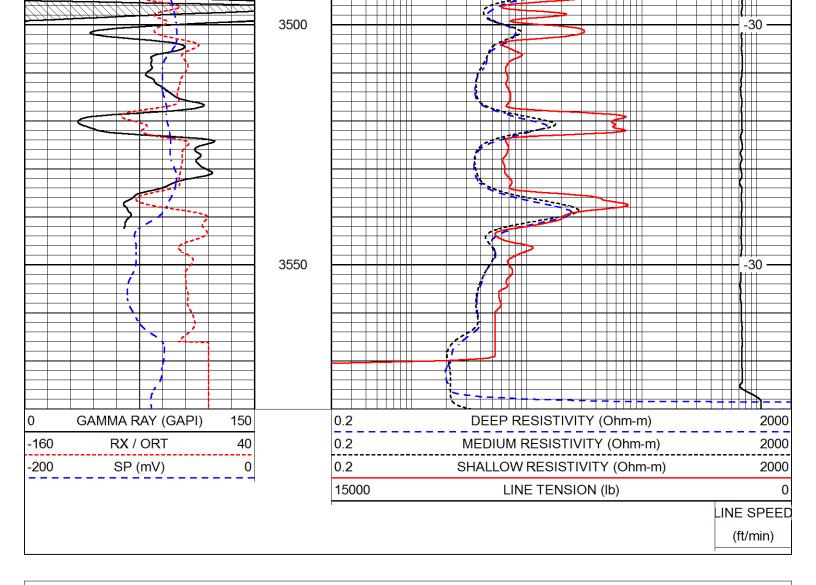
Dataset Creation Thu Apr 28 15:55:11 2016
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-160	RX / ORT	40
-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
15000	LINE TENSION (lb)	0







Database File Dataset Pathname Dataset Creation	stackmel	t_apo_18_wallerlowr /pass4.1 28 17:00:34 2016	Calibration Reporty_1.db	t			
		Dua	l Induction Calibration	Report			
	Serial- Calibra	Model: ation Performed:		987-M&W nu Mar 31 15	5:53:34 2016		
		Readings	F	References		Res	ults
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep Medium	178.615 161.982	710.235 1441.110	0.000 0.000	255.800 255.800	mmho/m mmho/m	0.530 0.440	-38.000 -110.500
		N	licrolog Calibration R	eport			
	Serial- Perfori			SI-02-PSI S ⁻ nu Apr 14 22	TKBL ML ::34:04 2016		
		Readings	F	References			ults
	Zero	Cal	Zero	Cal		m	b

0.0000

0.0000

10.0000

10.0000

Ohm-m

Ohm-m

10308.9000

7967.2700

-0.2000

0.4000

0.0043

0.0013

0.0031

0.0000

Normal

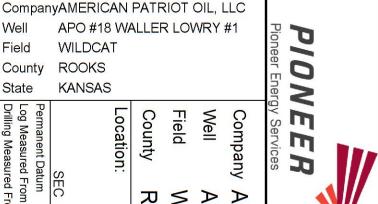
Inverse

Caliper 1.0020	1.0834		5.5000	16.5000	in 13	35.1560	-131.1700
	ı	Compensated D	Density Calibra	tion Report			
Sour	al-Model: ce / Verifier: er Calibration	Performed:	1	-914-M&W u Mar 31 16	:30:19 2016		
Master Calibration							
	Density		Fa	Detector	Near Detector		
Magnesium Aluminum	1.755 2.670	g/cc g/cc		4314.49 822.19	5307.52 3456.36	cps cps	
	Spine Angle	= 75.49	De	nsity/Spine	Ratio = 0.534		
	Size		F	Reading			
Small Ring Large Ring	4.00 14.00	in in		1.16 1.57			
)	Compensated N	leutron Calibra	ition Report			
		Serial Number: Tool Model: Calibration Per	M	0-MW &W ed Mar 30 10	0:04:05 2016		
Detector		Readings	Target		Normalization	1	
Short Space Long Space		6240.00 cps 460.00 cps	1000.0 1000.0		1.6025 1.9500		
		Gamma Ra	ay Calibration	Report			
Serial Number: Tool Model: Calibration Perforr	med:	89-M&W M&W Thu Mar	V r 31 15:29:33 2	2016			
Calibrator Value:		1000.0	G/	\PI			
Background Read Calibrator Reading		0.0 6.2	ср				
Sensitivity:		0.5200	G/	API/cps			



Company AMERICAN PATRIOT OIL, LLC
Well APO #18 WALLER LOWRY #1

Field WILDCAT
County ROOKS
State KANSAS



DUAL INDUCTION

Run Number Field County State Drilling Measured From Company AMERICAN PATRIOT OIL, LLC WILDCAT APO #18 WALLER LOWRY #1 1,670' FNL & 931' FWL 4/28/2016 TWP 8S KELLY BUSHING API#: 15-163-24312-00-00 **GROUND LEVEL** RGE 19W Elevation State KANSAS Other Services Elevation 2048' N/A 2040'

<<< Fold Here >>>

Rmc @ Meas. Temp Source of Rmf / Rmc

1.01

.75

888

8 8 8

44

(8)

112

CHARTS

2 1/2 HOURS

Rmf @ Meas. Temp

Rm @ Meas. Temp

Source of Sample pH / Fluid Loss

Operating Rig Time Rm @ BHT

Equipment Number Max Rec. Temp. F

Location

Witnessed By Recorded By

MARC DOWNING

COLBY J. LONG

112

Salinity,ppm CL

Type Fluid in Hole

CHEMICAL

4800

7.875"

Density / Viscosity

10.5

7.2 62

FLOWLINE

Bit Size

Bottom Logged Interval

Casing Driller

8.625"

263

@ 262'

3575' 00'

3576 3578

Top Log Interval

Casing Logger

Depth Logger Depth Driller

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. DAMAR, 5 EAST, 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

785-625-3858 www.pioneeres.com

Your Pioneer Energy Services Crew This Log Record Was Witnessed By Engineer: J. LONG **Primary Witness:** MARC DOWNING Operator: T. MARTIN Secondary Witness: Operator: Secondary Witness: Secondary Witness: Operator:

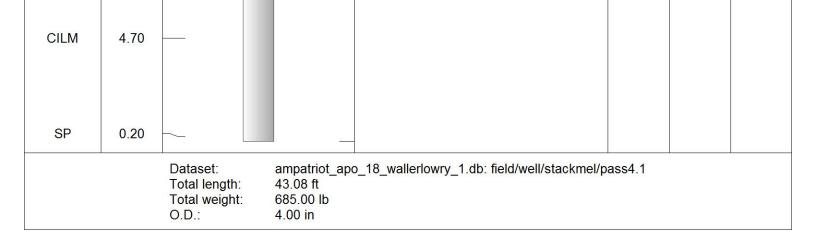
Log Variables

DatabaseC:\ProgramData\Warrior\Data\ampatriot_apo_18_wallerlowry_1.db
Dataset field/well/stackmel/pass4.1/_vars_

 _	-	-	_	44	_	m
O	n	-	n	П		

	i op Zanem									
Α	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	М	MATRXDEN g/cc			
1	7.875	112	5.5	0	1	2	2.71			
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft			
Limestone	0	0	0	-620	54	Off	3576			

Sensor	Offset (ft)	Schematic	Description —	Length (ft)	O.D. (in)	Weight (
GR	40.58	_	——GR-M&W (89-M&W) —	3.00	3.50	50.00
ENLSC ENSSC	37.48 — 36.73 —		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (71-914)	8.50	4.00	250.0
MON	40.00		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83					
RLL3 RLL3F	15.80 15.79					
CILD	8.00		——DIL-M&W (1987)	18.50	3.50	220.0





MAIN PASS

2" SCALE RESISTIVITY

CONDUCTIVITY (mmho/m)

Database File ampatriot_apo_18_wallerlowry_1.db

150

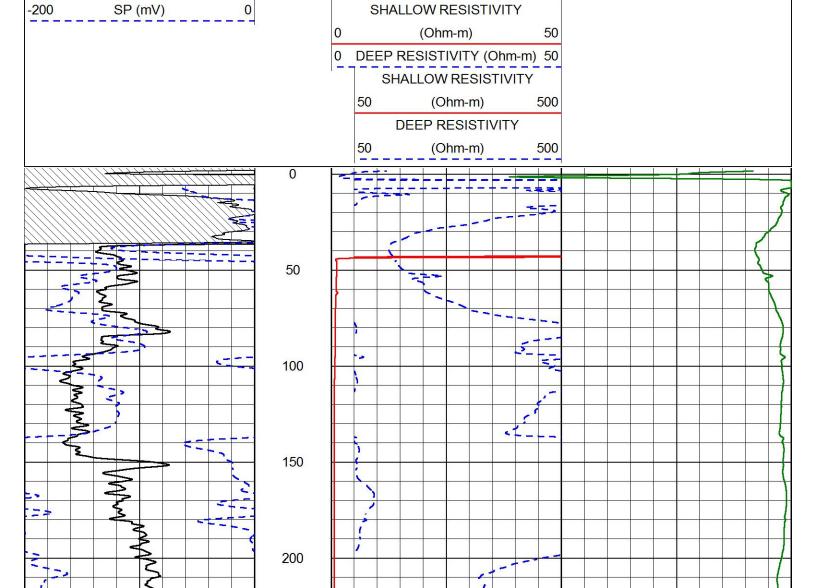
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Presentation Format dil2in

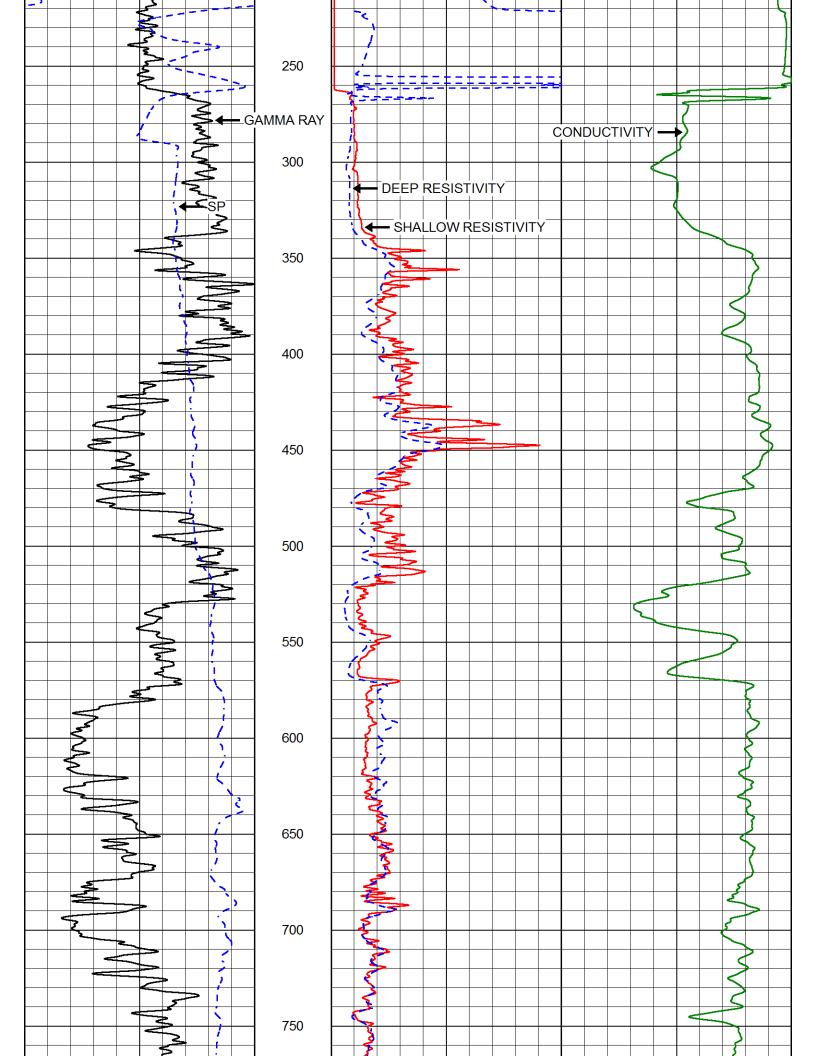
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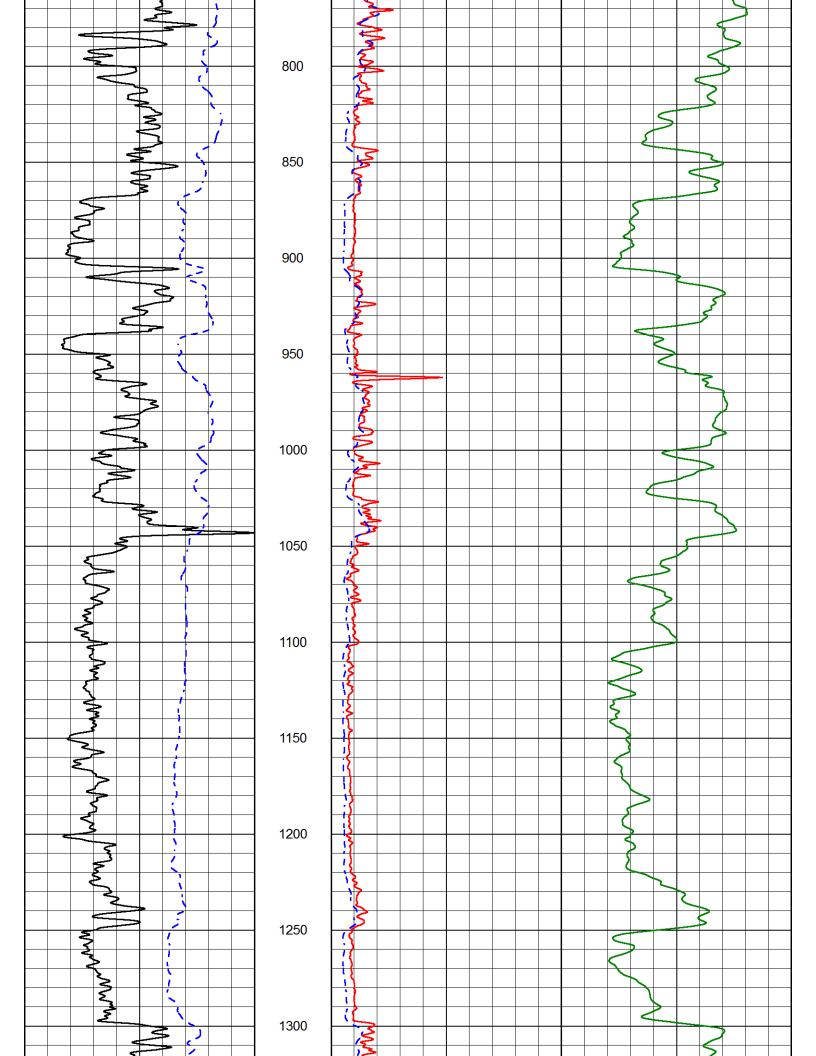
GAMMA RAY (GAPI)

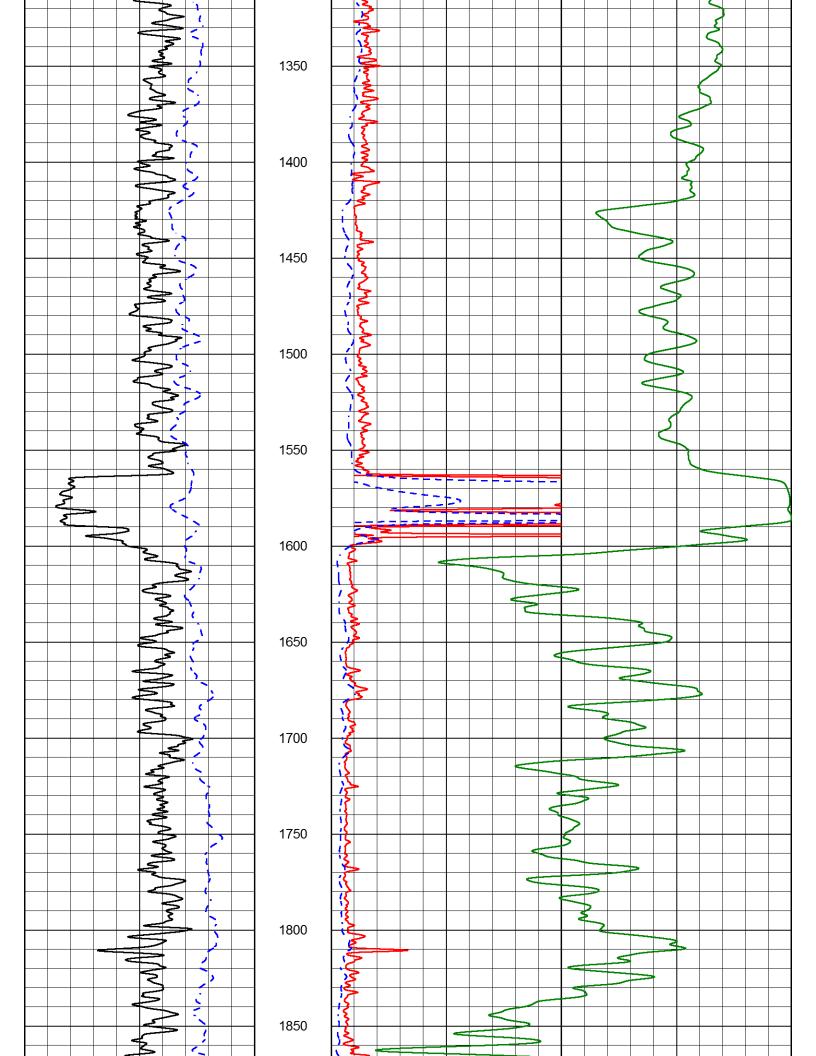
Dataset Creation Thu Apr 28 17:01:04 2016 Charted by Depth in Feet scaled 1:600

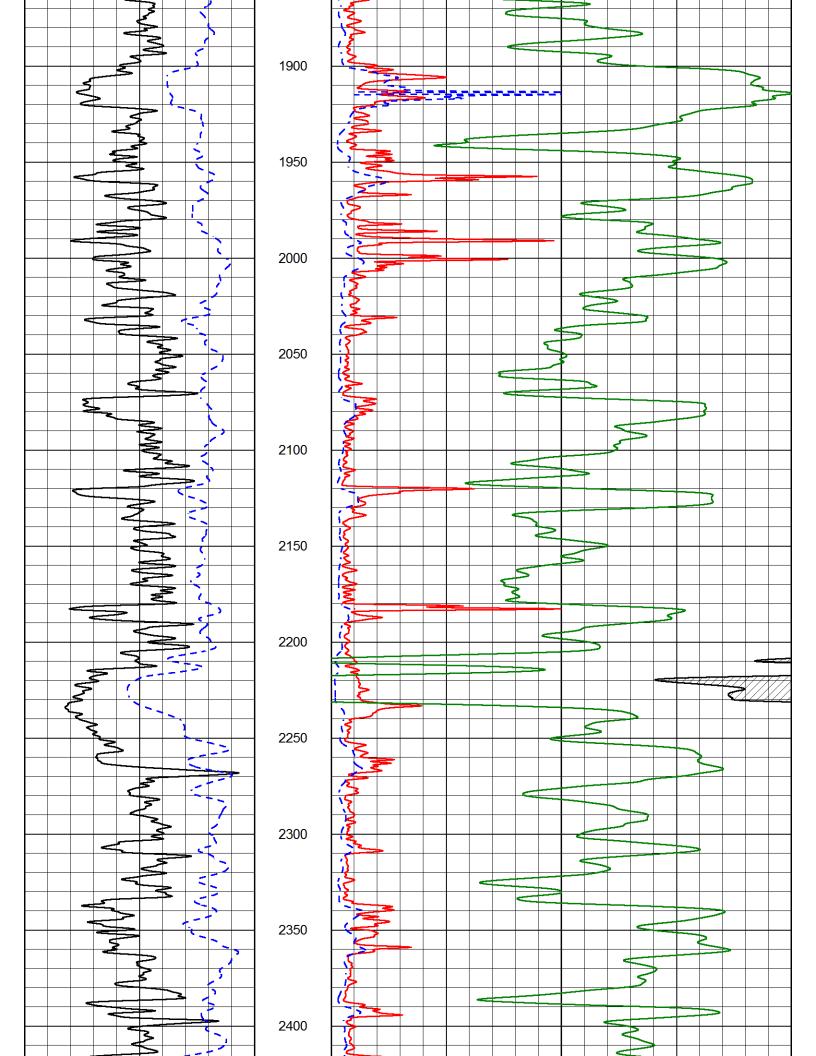


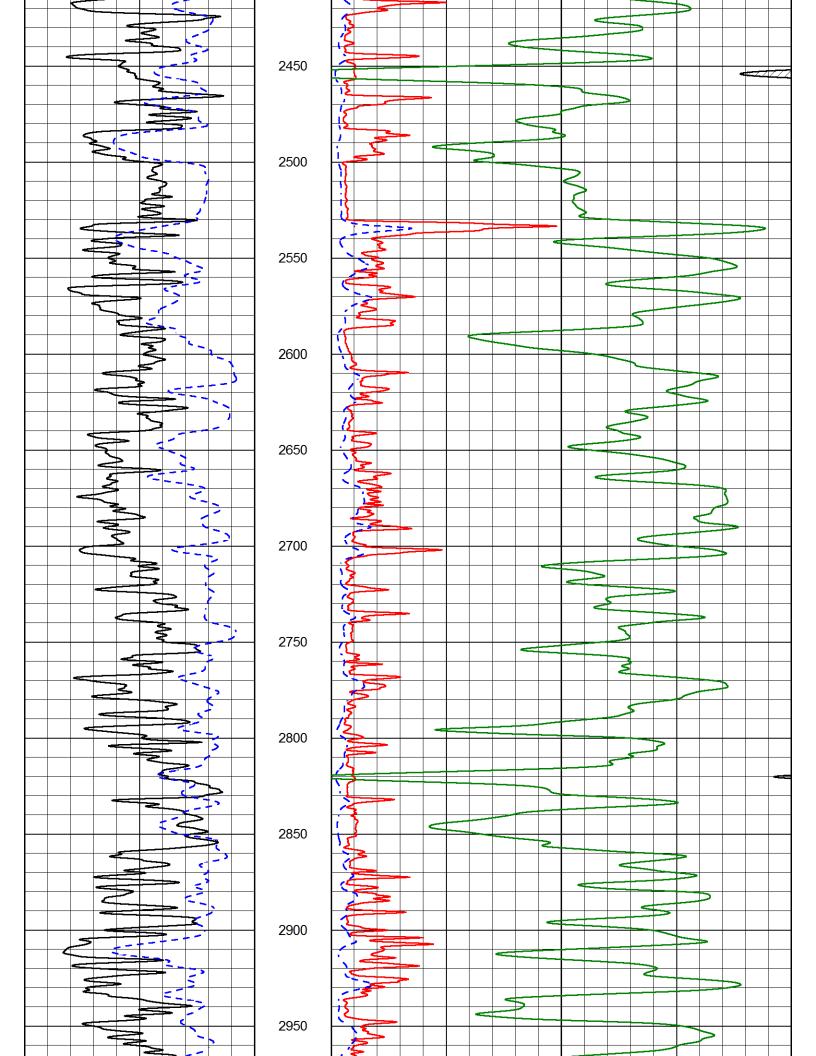
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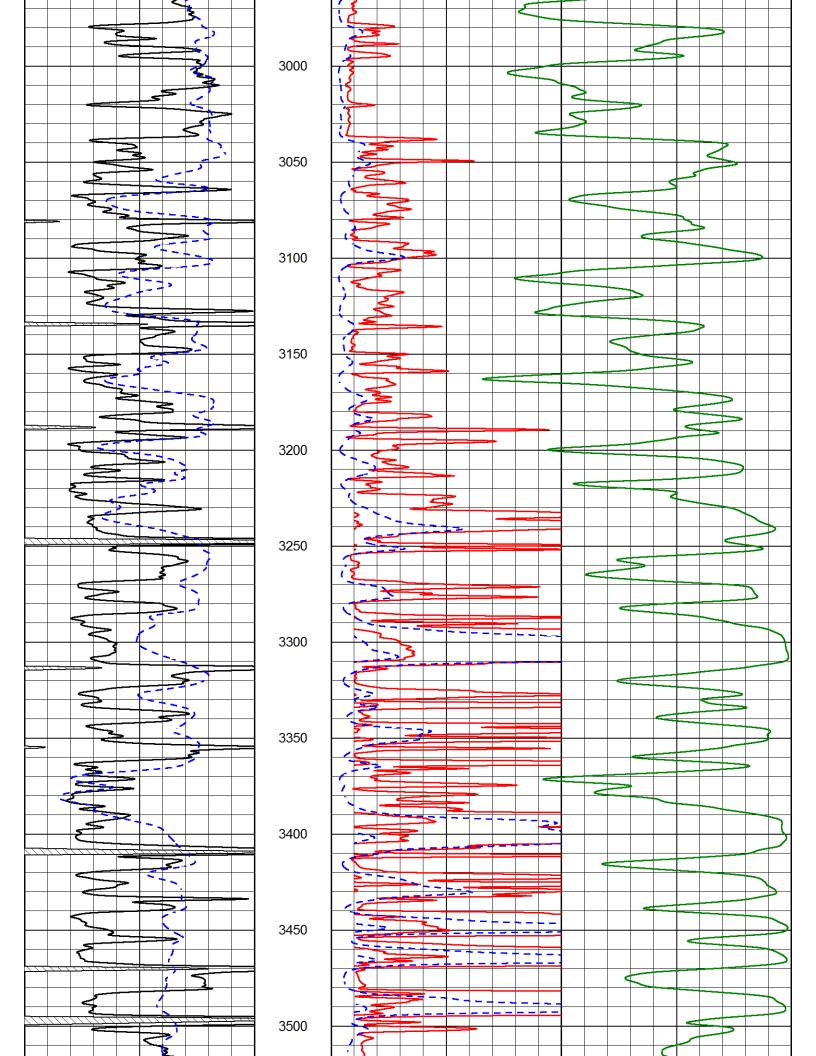


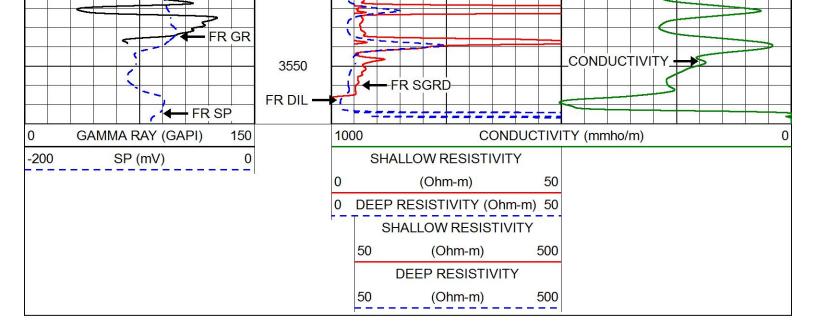














MAIN PASS

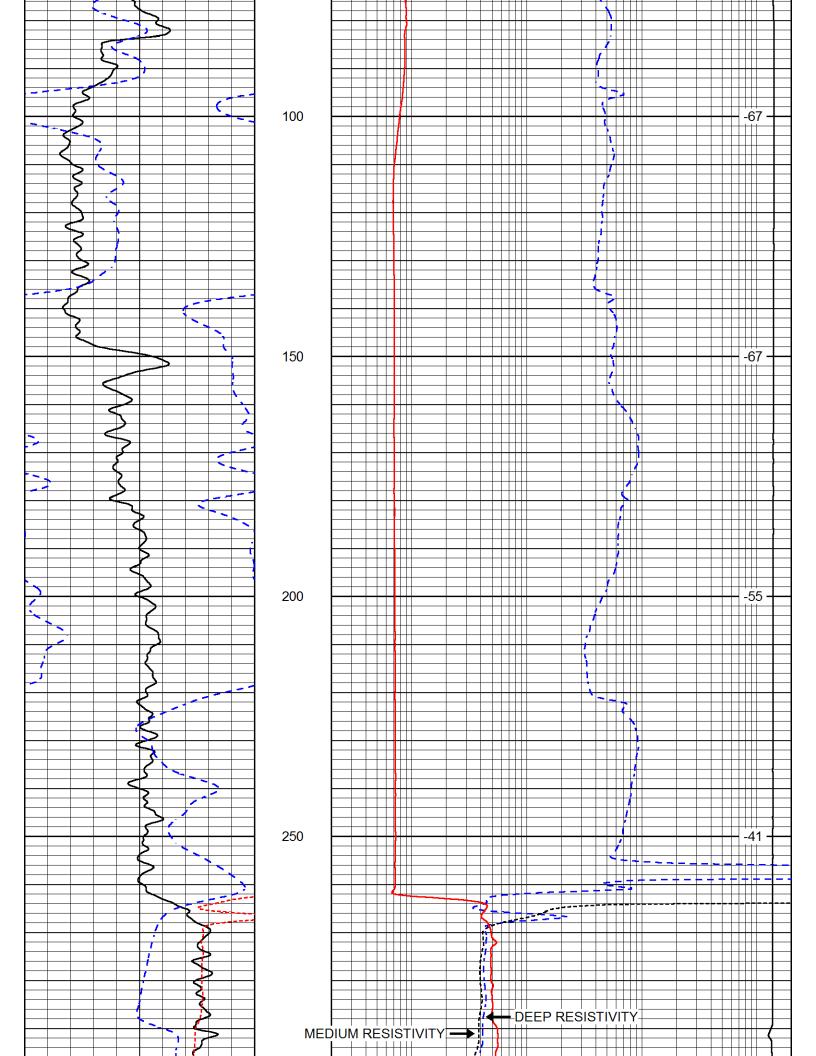
ampatriot_apo_18_wallerlowry_1.db Database File

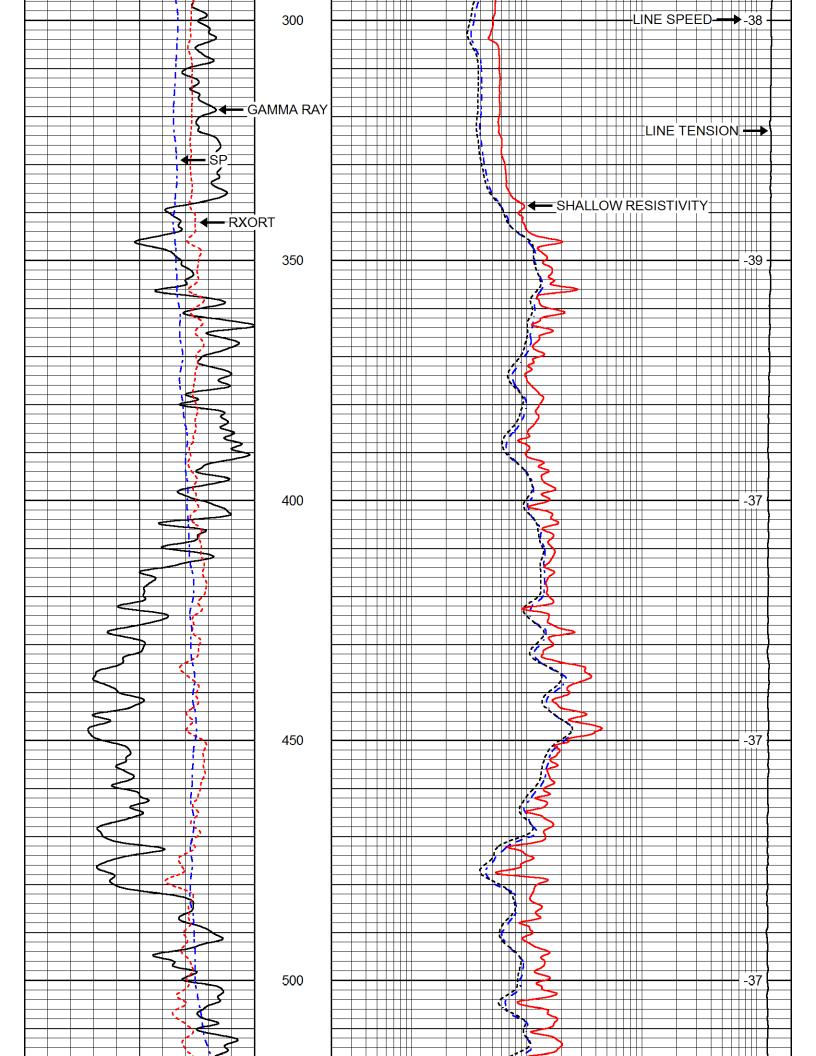
stackmel/pass4.1 Dataset Pathname

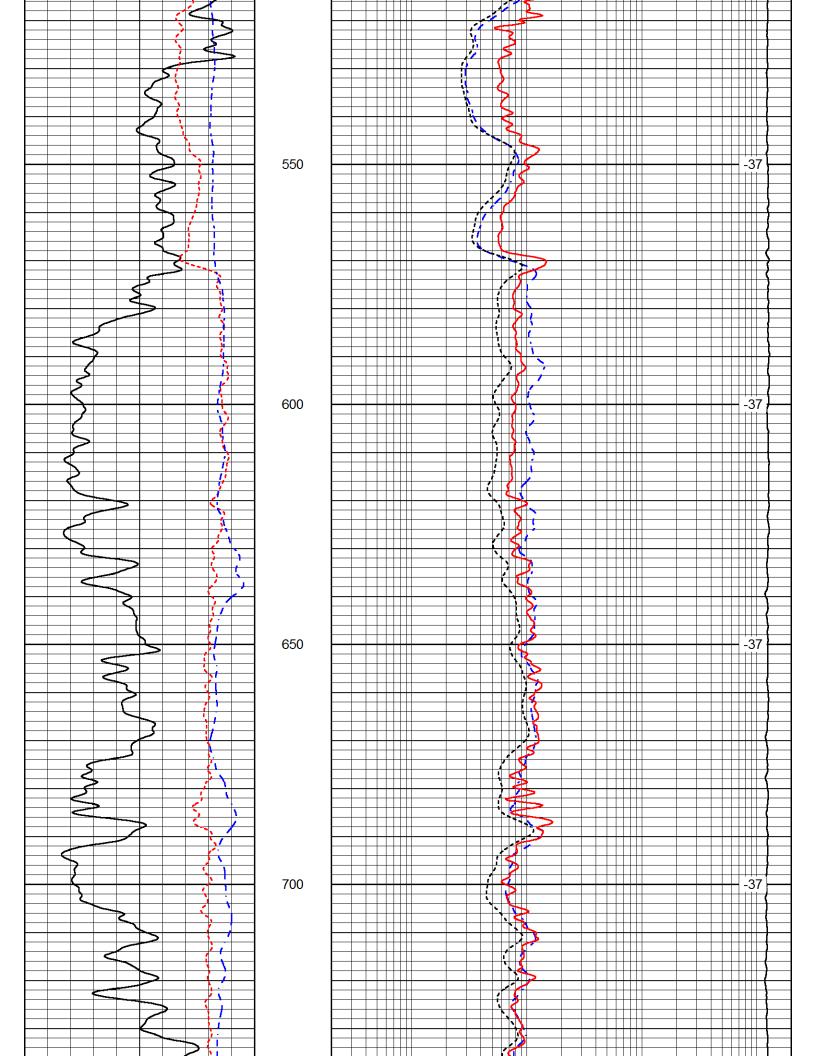
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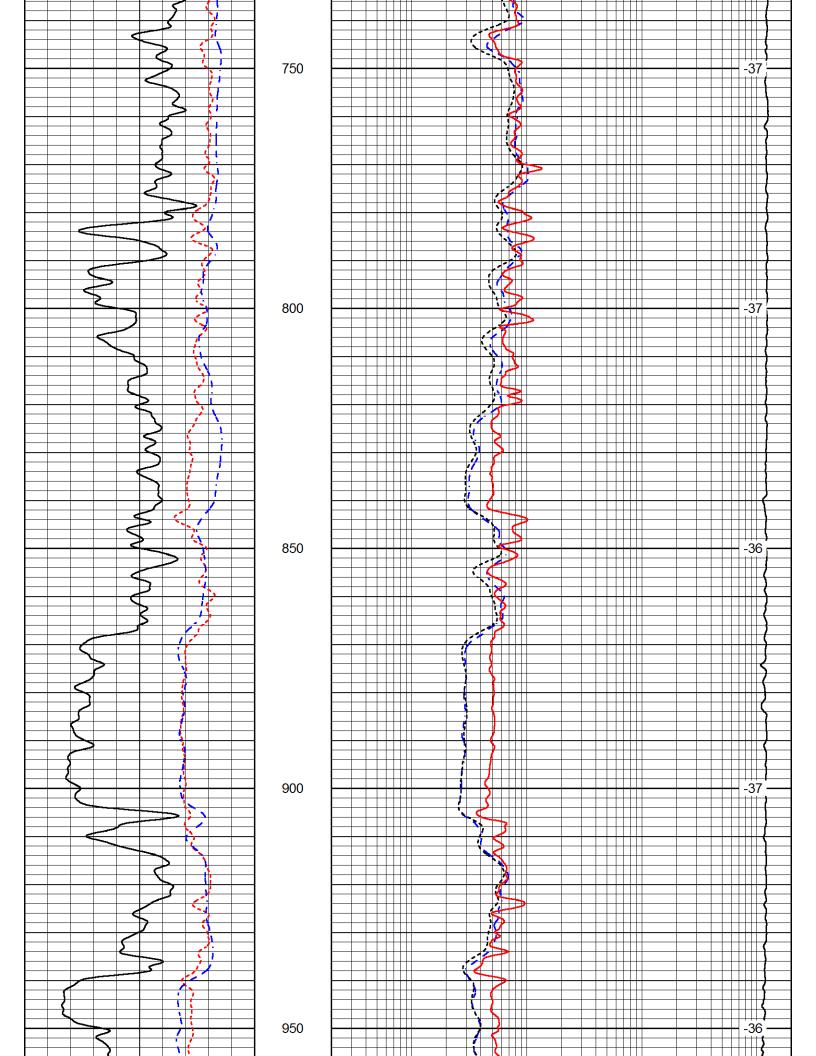
Thu Apr 28 17:00:34 2016 **Dataset Creation** Depth in Feet scaled 1:240 Charted by

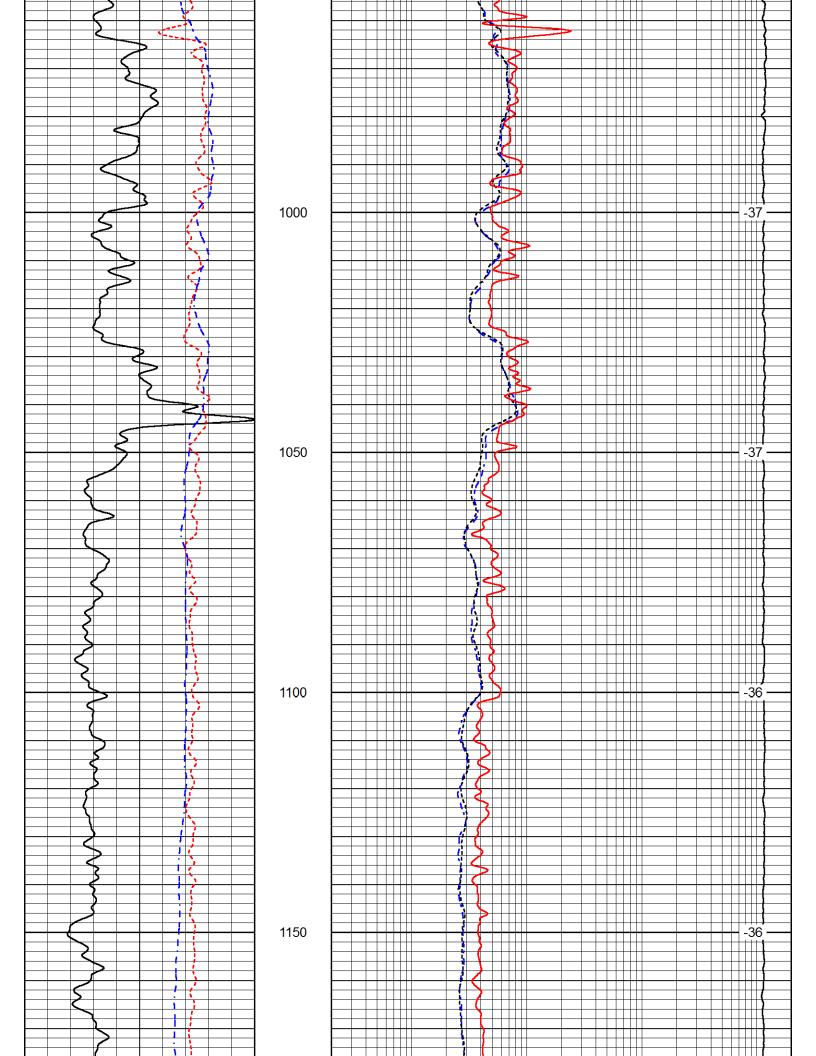
0	GAMMA RAY (GAPI)	150		0.2	DEEP RESISTIVITY (Ohm-m)	2000
-160	RX / ORT	40		0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0		0.2	SHALLOW RESISTIVITY (Ohm-m)	2000
				1500	0 LINE TENSION (lb)	0
						INE SPEED
						(ft/min)
			50			-62

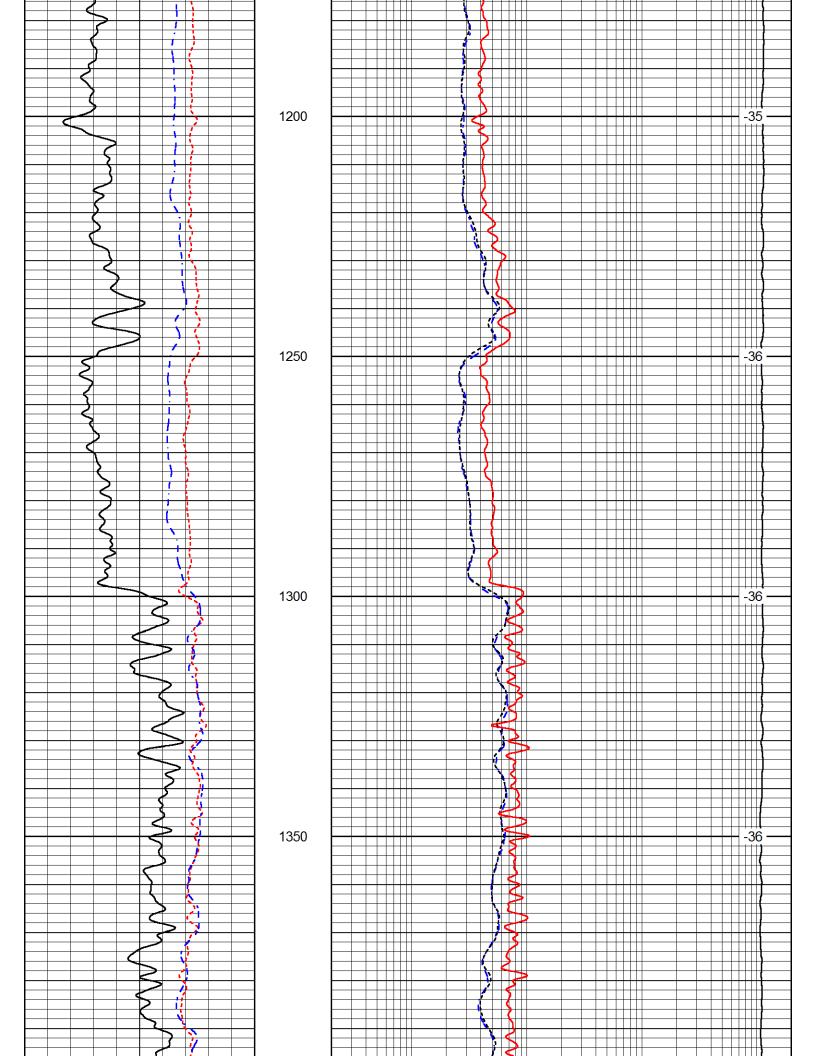


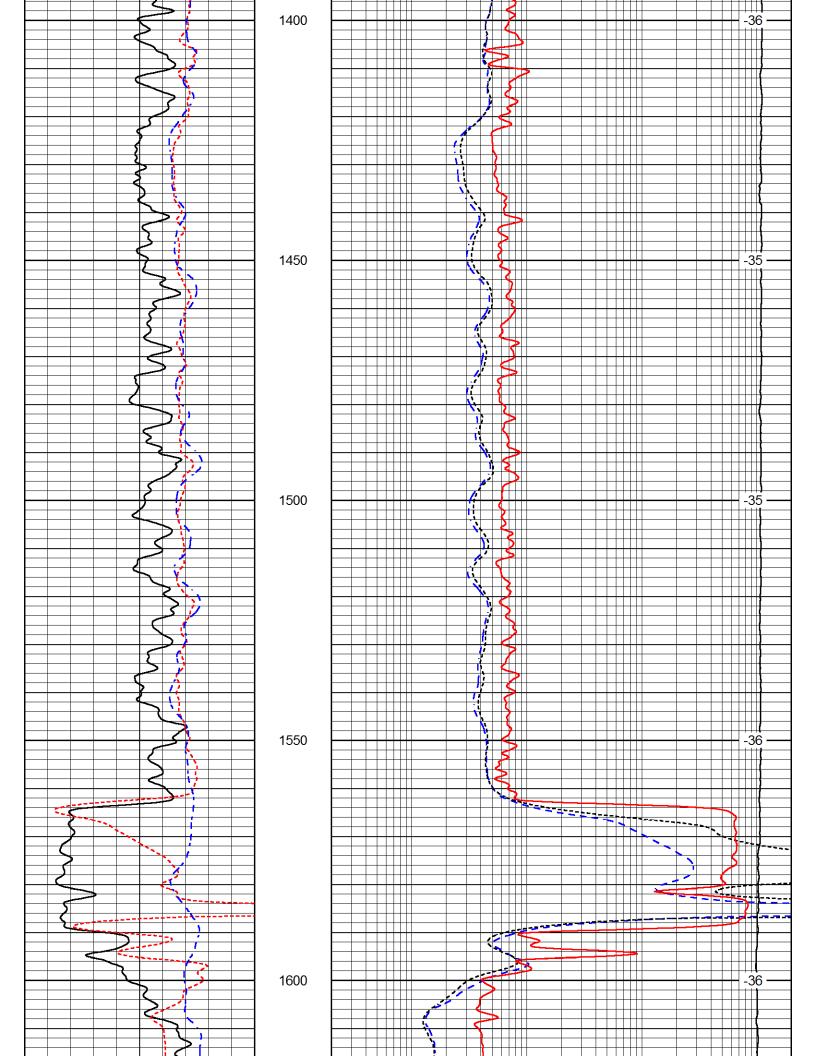


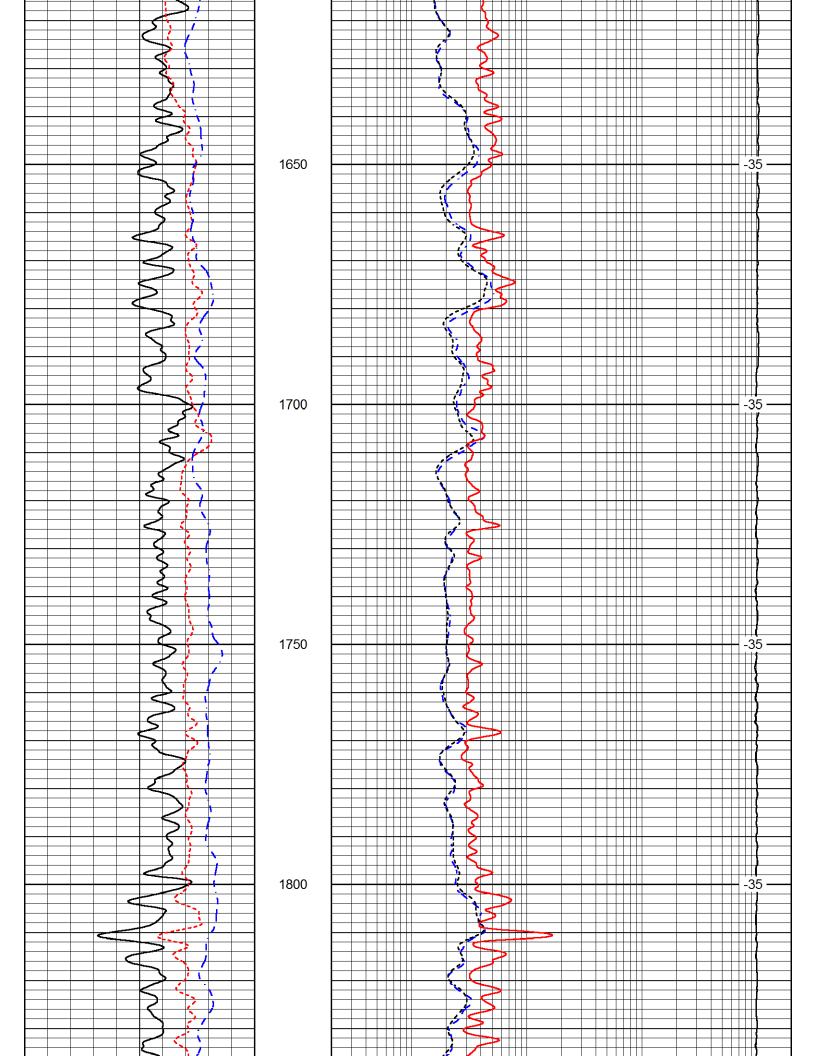


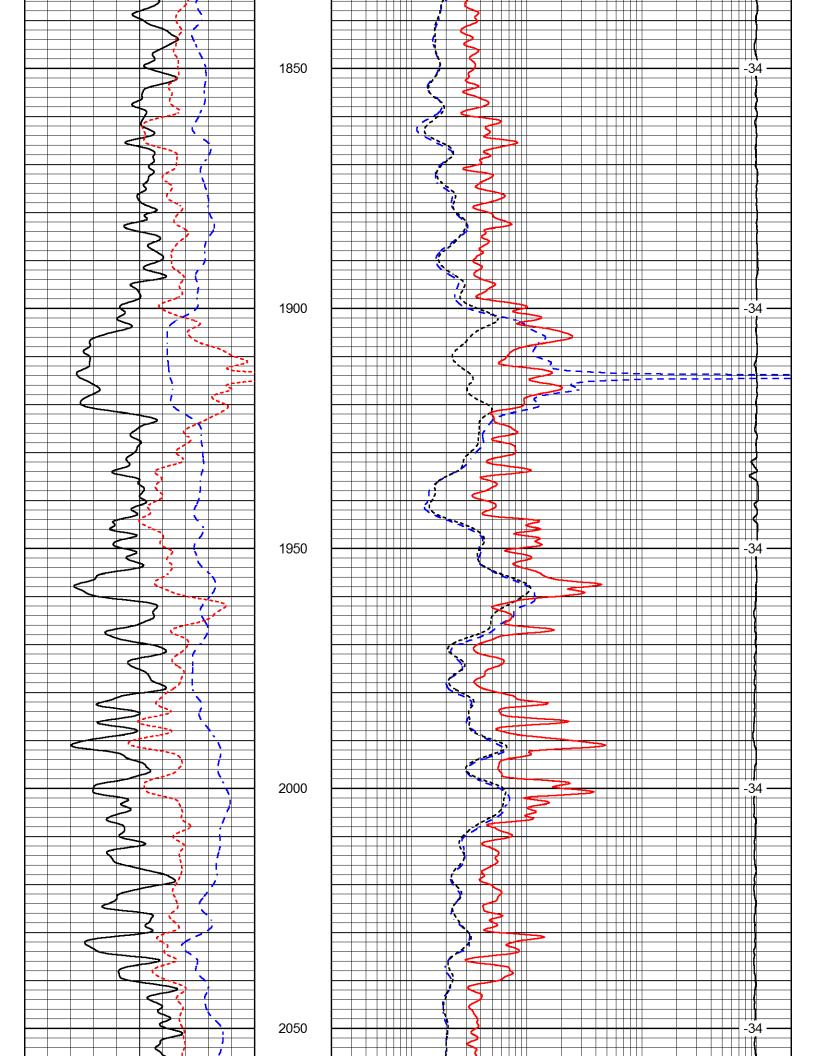


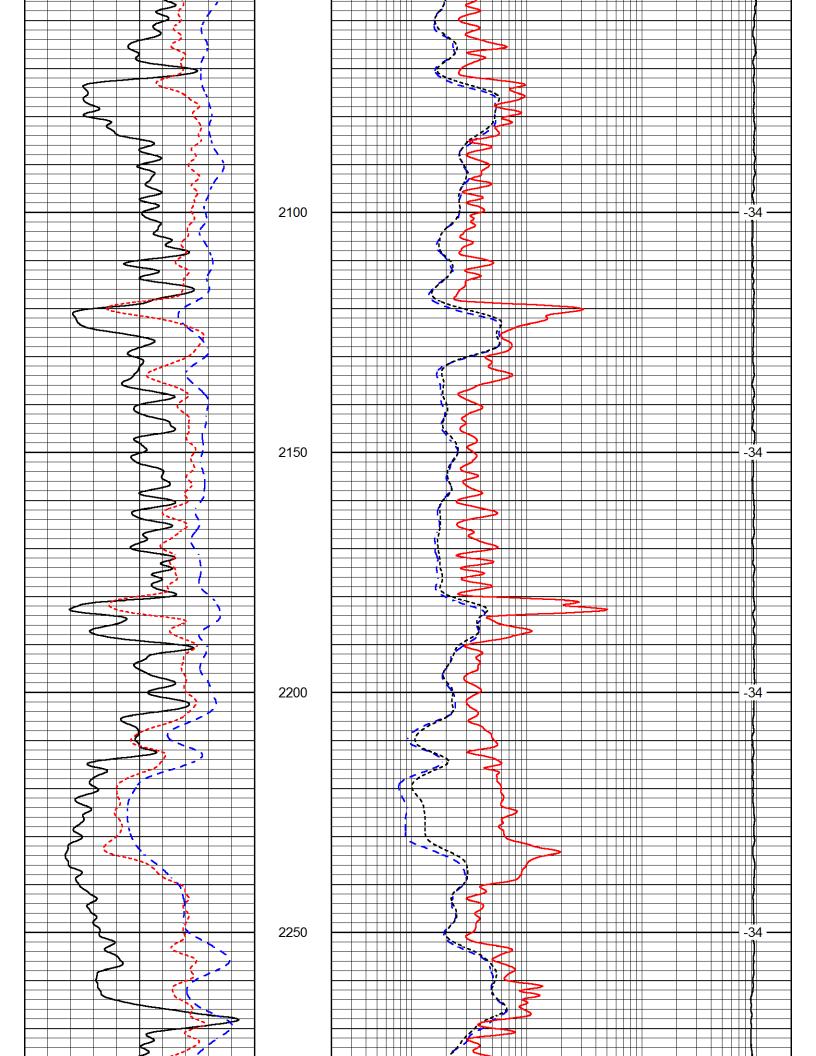


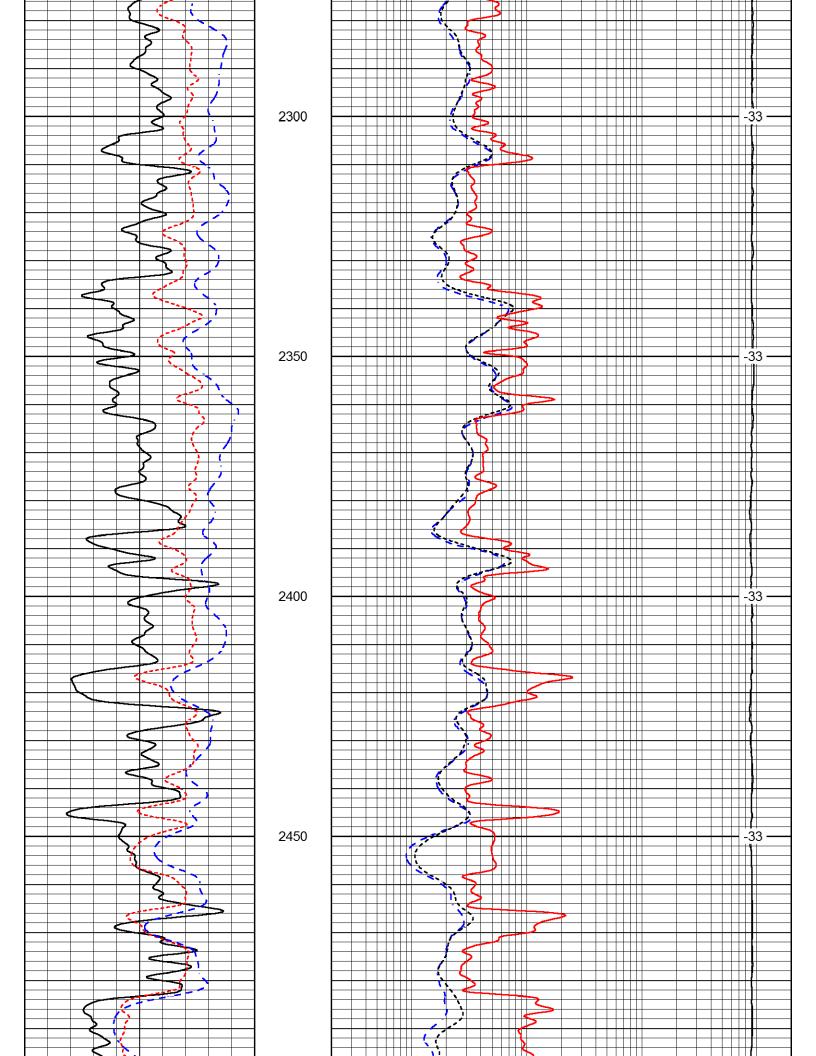


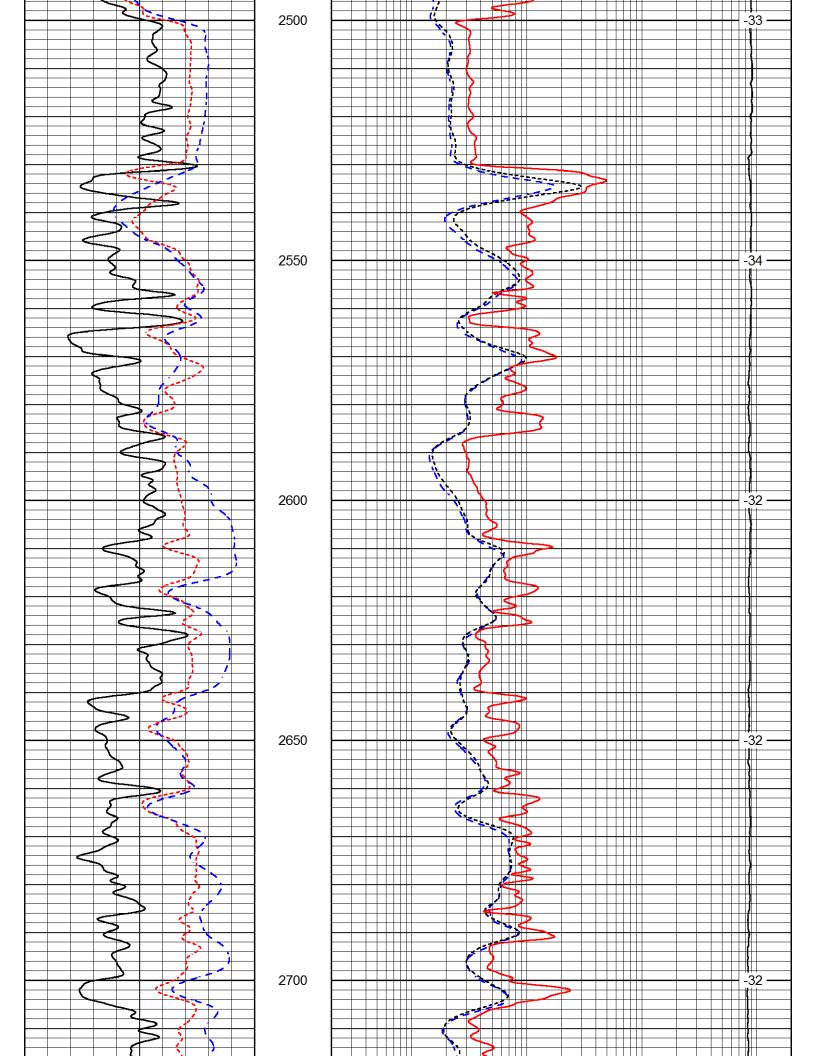


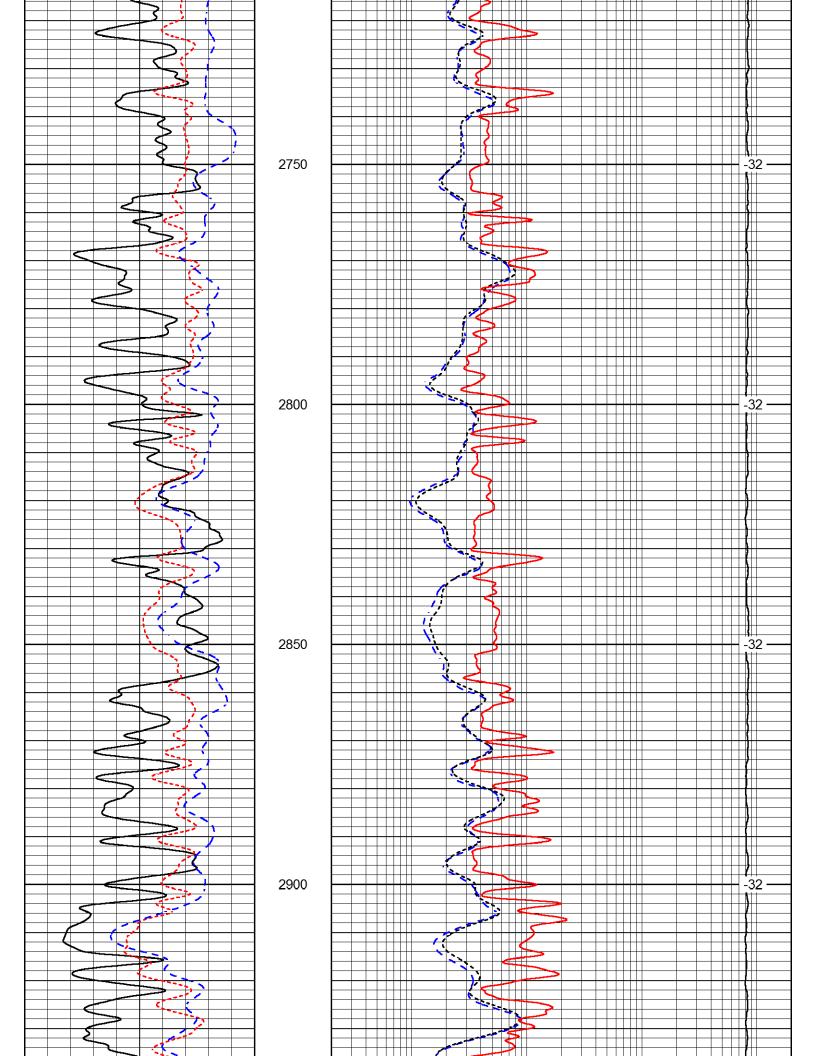


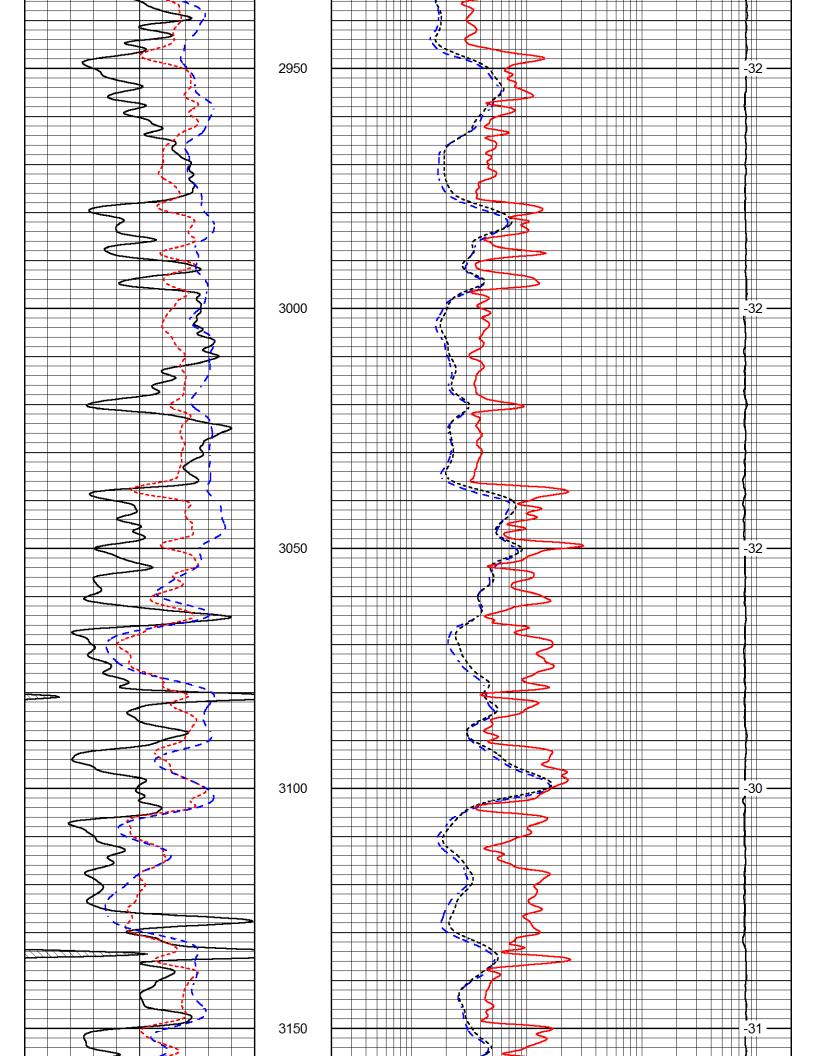


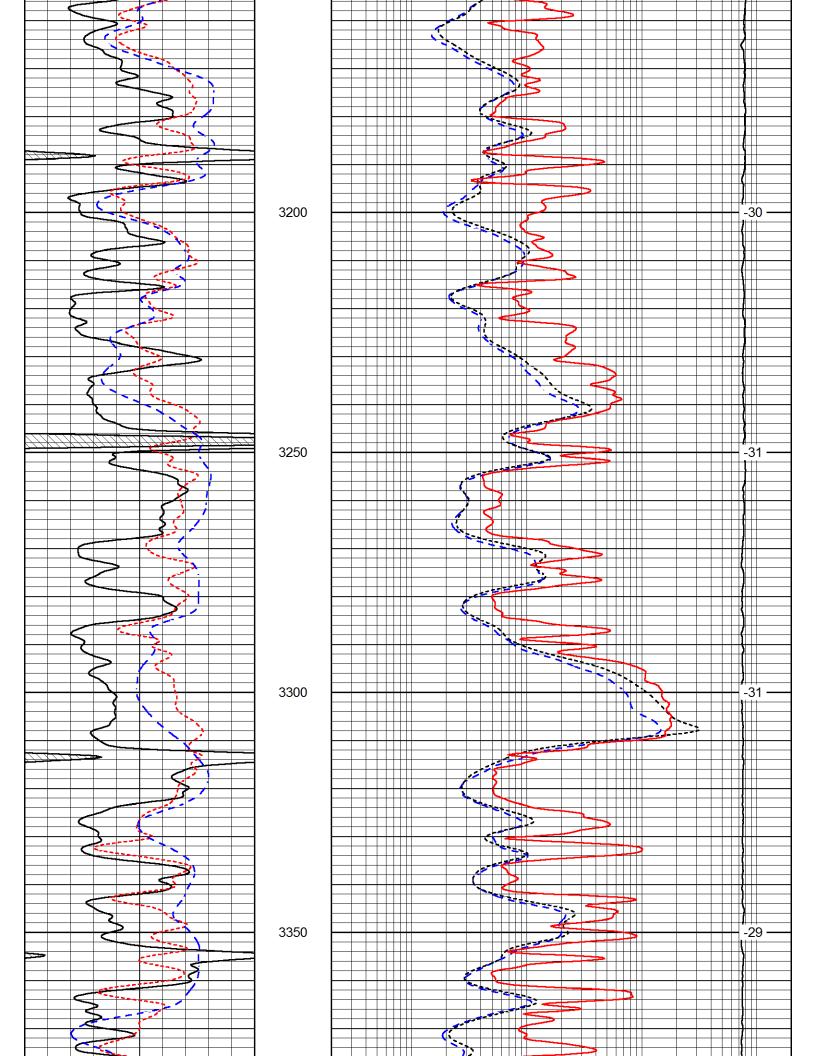


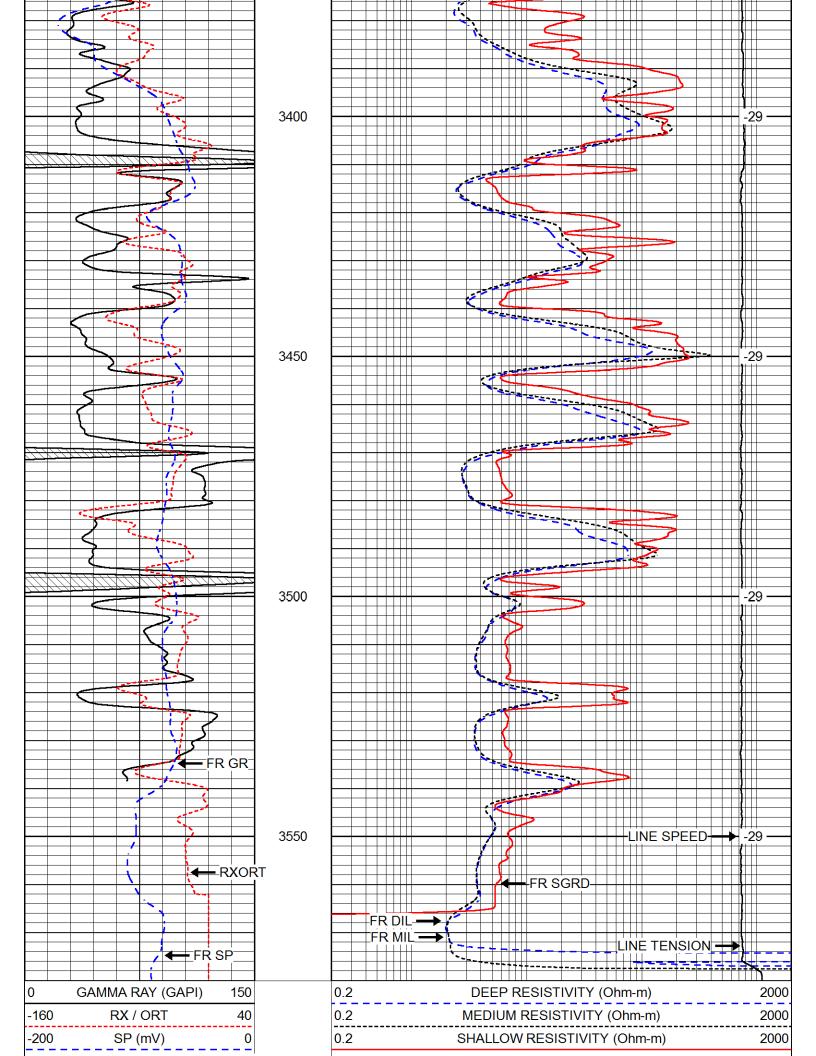












15000 LINE TENSION (lb)

LINE SPEED (ft/min)



REPEAT SECTION

Database File ampatriot_apo_18_wallerlowry_1.db

Dataset Pathname stackmel/pass3.1

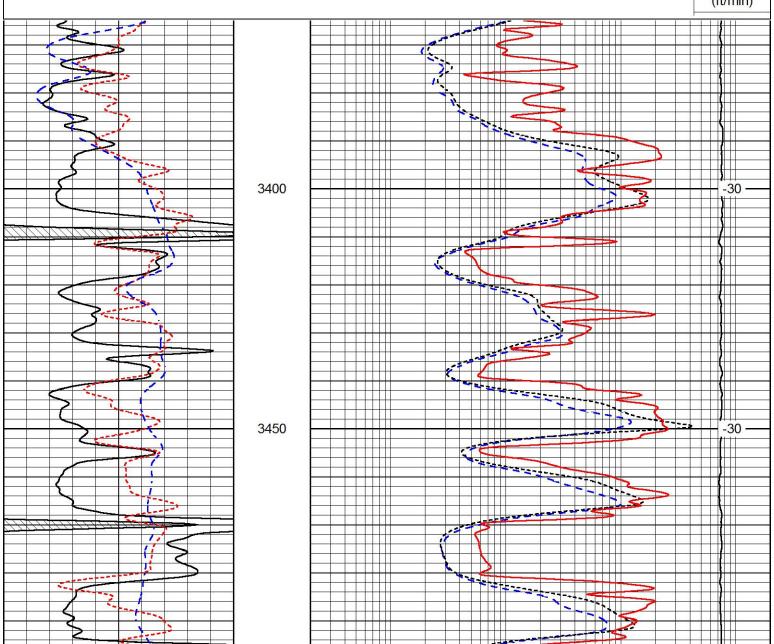
Presentation Format dil

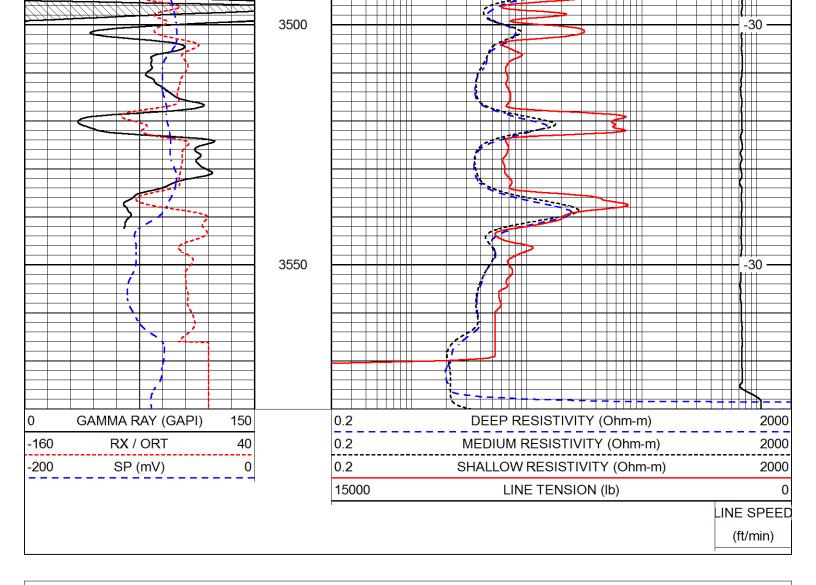
Dataset Creation Thu Apr 28 15:55:11 2016
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-160	RX / ORT	40
-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
15000	LINE TENSION (lb)	0







Database File Dataset Pathname Dataset Creation	Dataset Pathname stackmel/pass4.1							
		Dua	l Induction Calibration	Report				
		987-M&W nu Mar 31 15	5:53:34 2016					
		Readings	F	References		Res	ults	
Loop:	Air	Loop	Air	Loop		Gain	Offset	
Deep Medium	178.615 161.982	710.235 1441.110	0.000 0.000	255.800 255.800	mmho/m mmho/m	0.530 0.440	-38.000 -110.500	
		N	licrolog Calibration R	eport				
		SI-02-PSI S ⁻ nu Apr 14 22	TKBL ML ::34:04 2016					
		Readings	F	References		Res	ults	
	Zero	Cal	Zero	Cal		m	b	

0.0000

0.0000

10.0000

10.0000

Ohm-m

Ohm-m

10308.9000

7967.2700

-0.2000

0.4000

0.0043

0.0013

0.0031

0.0000

Normal

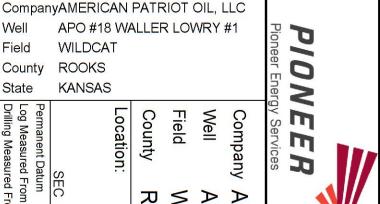
Inverse

Caliper 1.0020	1.0834		5.5000	16.5000	in 13	35.1560	-131.1700
	ı	Compensated D	Density Calibra	tion Report			
Sour	al-Model: ce / Verifier: er Calibration	Performed:	1	-914-M&W u Mar 31 16	:30:19 2016		
Master Calibration							
	Density		Fa	Detector	Near Detector		
Magnesium Aluminum	1.755 2.670	g/cc g/cc		4314.49 822.19	5307.52 3456.36	cps cps	
	Spine Angle	= 75.49	De	nsity/Spine	Ratio = 0.534		
	Size		F	Reading			
Small Ring Large Ring	4.00 14.00	in in		1.16 1.57			
)	Compensated N	leutron Calibra	ition Report			
		Serial Number: Tool Model: Calibration Per	M	0-MW &W ed Mar 30 10	0:04:05 2016		
Detector		Readings	Target		Normalization	1	
Short Space Long Space		6240.00 cps 460.00 cps	1000.0 1000.0		1.6025 1.9500		
		Gamma Ra	ay Calibration	Report			
Serial Number: Tool Model: Calibration Perforr	med:	89-M&W M&W Thu Mar	V r 31 15:29:33 2	2016			
Calibrator Value:		1000.0	G/	\PI			
Background Read Calibrator Reading		0.0 6.2	ср				
Sensitivity:		0.5200	G/	API/cps			



Company AMERICAN PATRIOT OIL, LLC
Well APO #18 WALLER LOWRY #1

Field WILDCAT
County ROOKS
State KANSAS



MICRORESISTIVITY LOG

Company AMERICAN PATRIOT OIL, LLC

Well APO #18 WALLER LOWRY #1

Field WILDCAT

County ROOKS State KANSAS

Location: API #: 15-163-24312-00-00 Other Services

1,670' FNL & 931' FWL

SEC 31 TWP 8S RGE 19W

Permanent Datum GROUND LEVEL Elevation 2040' K.B. 2048' OF NIA G.L. 2040'

Porilling Measured From KELLY BUSHING G.L. 2040'

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.

Rmc @ Meas. Temp Source of Rmf / Rmc

1.01

56

888

8 8 8

44

(8)

112

CHARTS

2 1/2 HOURS

Rmf @ Meas. Temp

Rm @ Meas. Temp

pH / Fluid Loss Source of Sample

Rm @ BHT
Operating Rig Time

Max Rec. Temp. F
Equipment Number

Location

Recorded By Witnessed By

MARC DOWNING

J. LONG

112

<<< Fold Here >>>

Salinity,ppm CL

Type Fluid in Hole

CHEMICAL

4800

7.875"

Density / Viscosity

10.5

7.2

FLOWLINE

Bit Size

Casing Driller

8.625"

263

@ 262'

3575' 250'

3578'

Top Log Interval

Casing Logger

Depth Driller
Depth Logger

Run Number

4/28/2016

Bottom Logged Interval

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

DAMAR, 5 EAST, 1/4 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. LONG
Operator: T. MARTIN
Operator:
Operator:
Operator:
Operator:
Secondary Witness:
Operator:
Secondary Witness:
Secondary Witness:

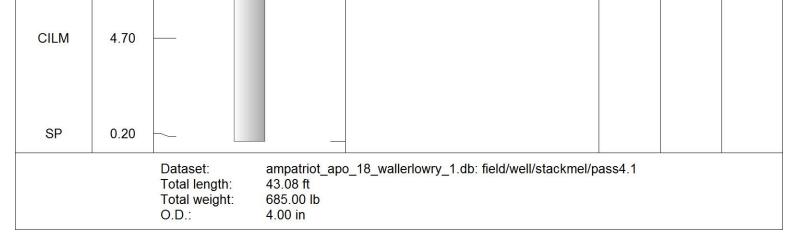
Log Variables

DatabaseC:\ProgramData\Warrior\Data\ampatriot_apo_18_wallerlowry_1.db
Dataset field/well/stackmel/pass4.1/_vars_

 _	-	-	_	44	_	m
 \mathbf{c}	n	-	n	П		

	Top Dottom								
Α	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	М	MATRXDEN g/cc		
1	7.875	112	5.5	0	1	2	2.71		
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft		
Limestone	0	0	0	-620	54	Off	3576		

Sensor	Offset (ft)	Schematic	Description —	Length (ft)	O.D. (in)	Weight (
GR	40.58	_	——GR-M&W (89-M&W) —	3.00	3.50	50.00
ENLSC ENSSC	37.48 — 36.73 —		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (71-914)	8.50	4.00	250.0
MOA!	40.00		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83					
RLL3 RLL3F	15.80 15.79					
CILD	8.00		——DIL-M&W (1987)	18.50	3.50	220.0





MAIN PASS

Database File ampatriot_apo_18_wallerlowry_1.db

Dataset Pathname stackmel/pass4.1

Presentation Format micro

Dataset Creation Thu Apr 28 17:00:34 2016
Charted by Depth in Feet scaled 1:240

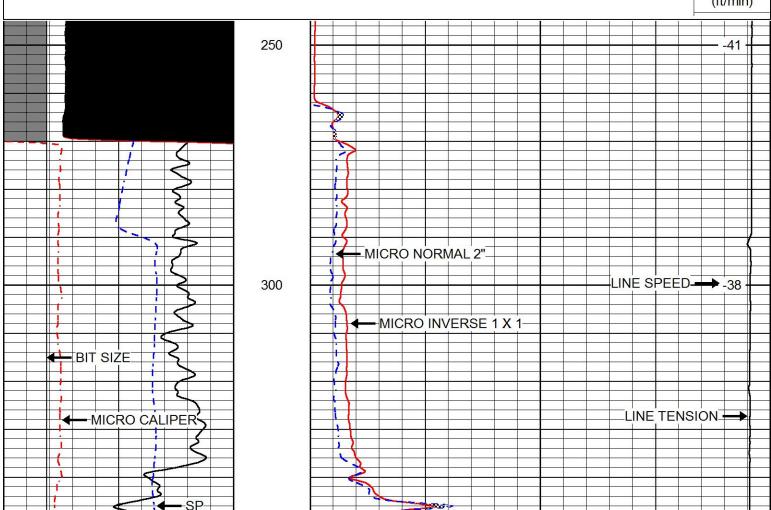
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

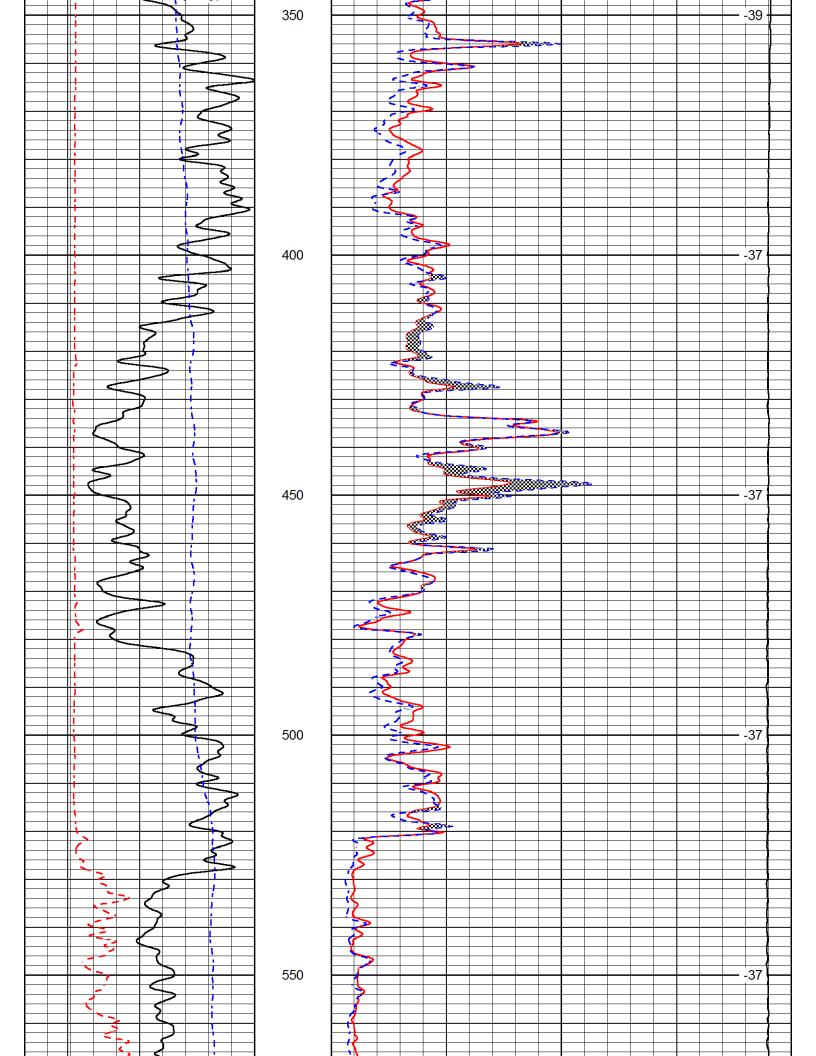
 0
 MICRO INVERSE 1 X 1 (Ohm-m)
 40

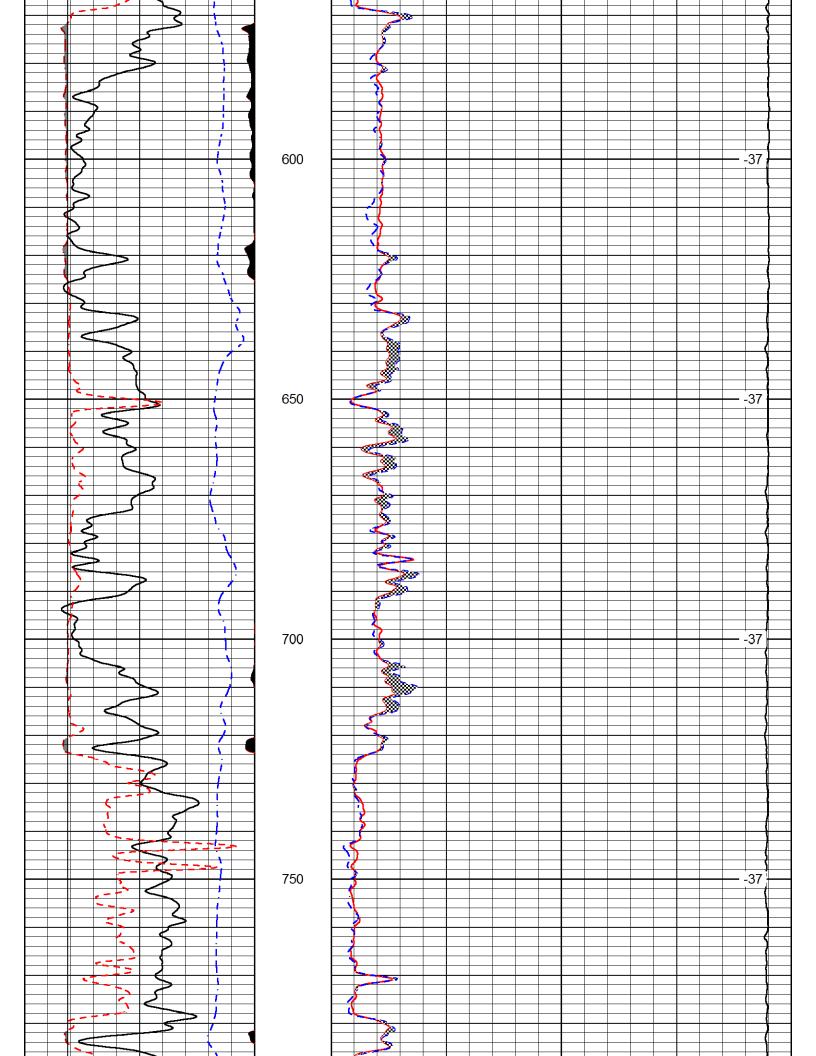
 0
 MICRO NORMAL 2" (Ohm-m)
 40

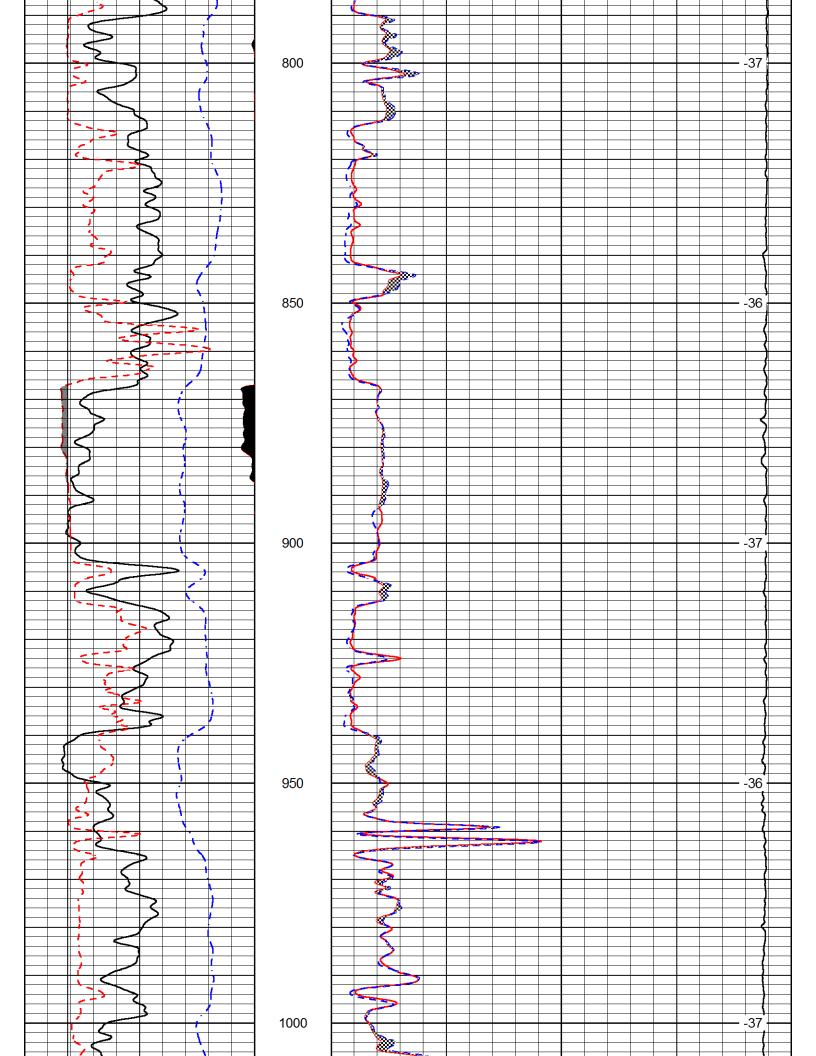
 15000
 LINE TENSION (Ib)
 0

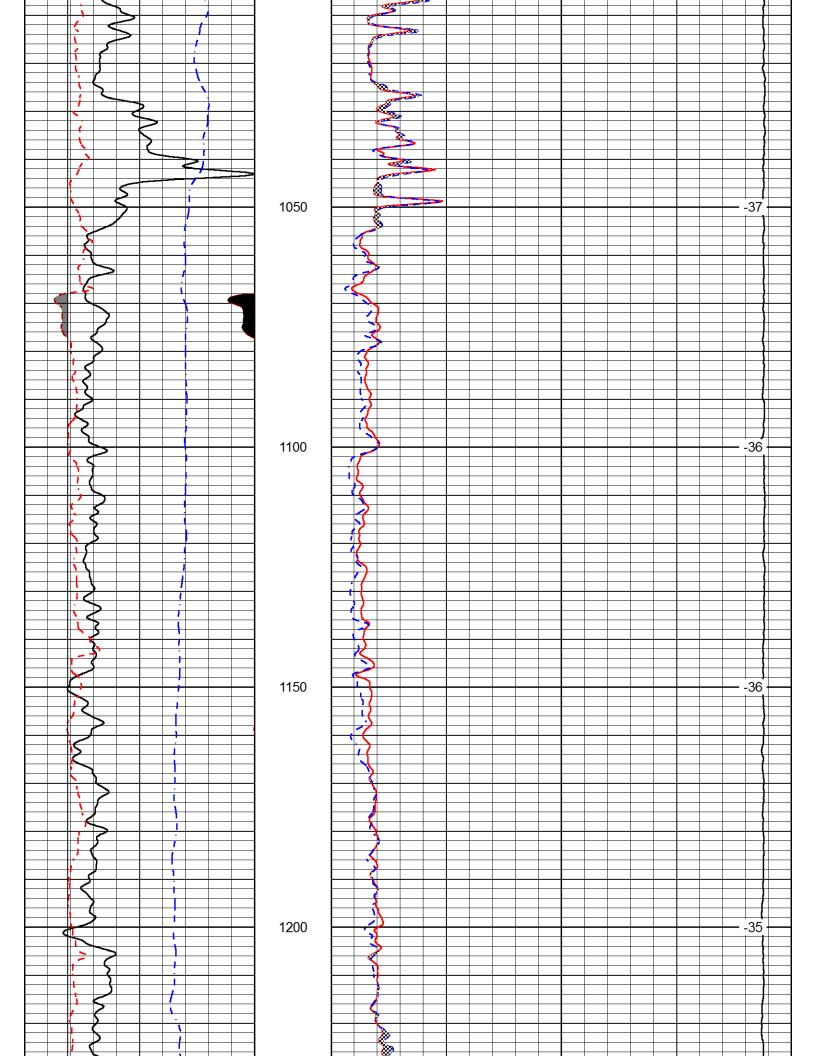
LINE SPEED (ft/min)

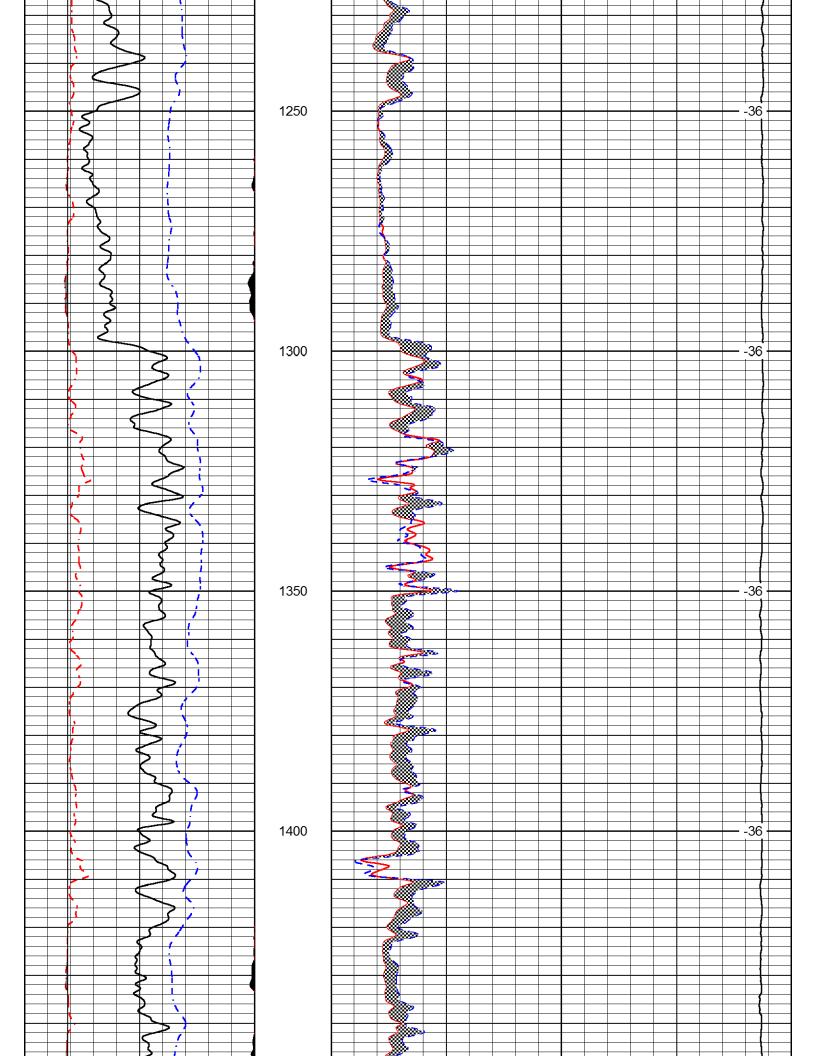


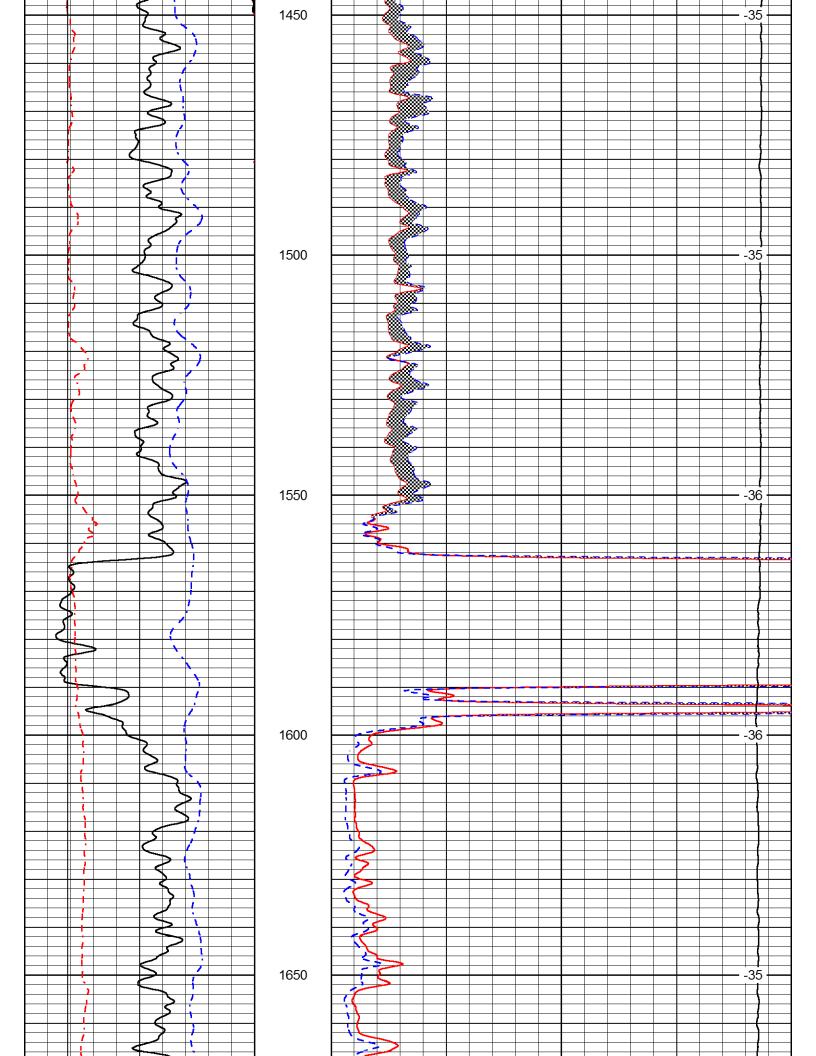


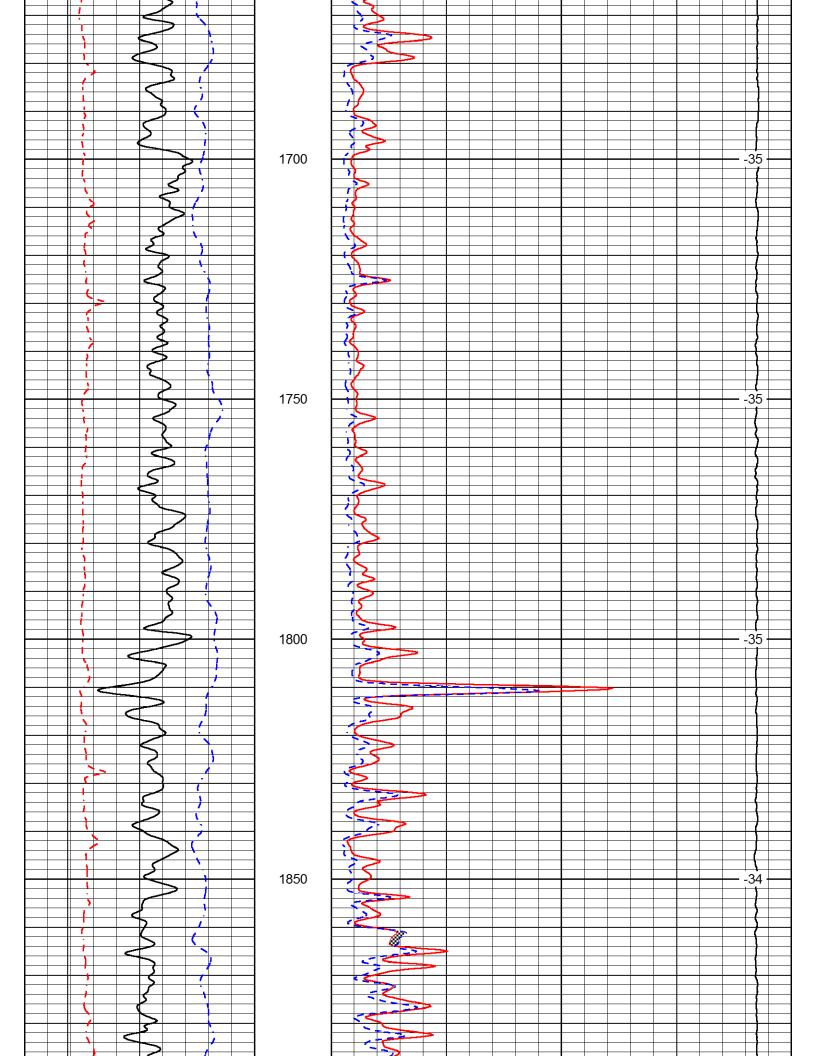


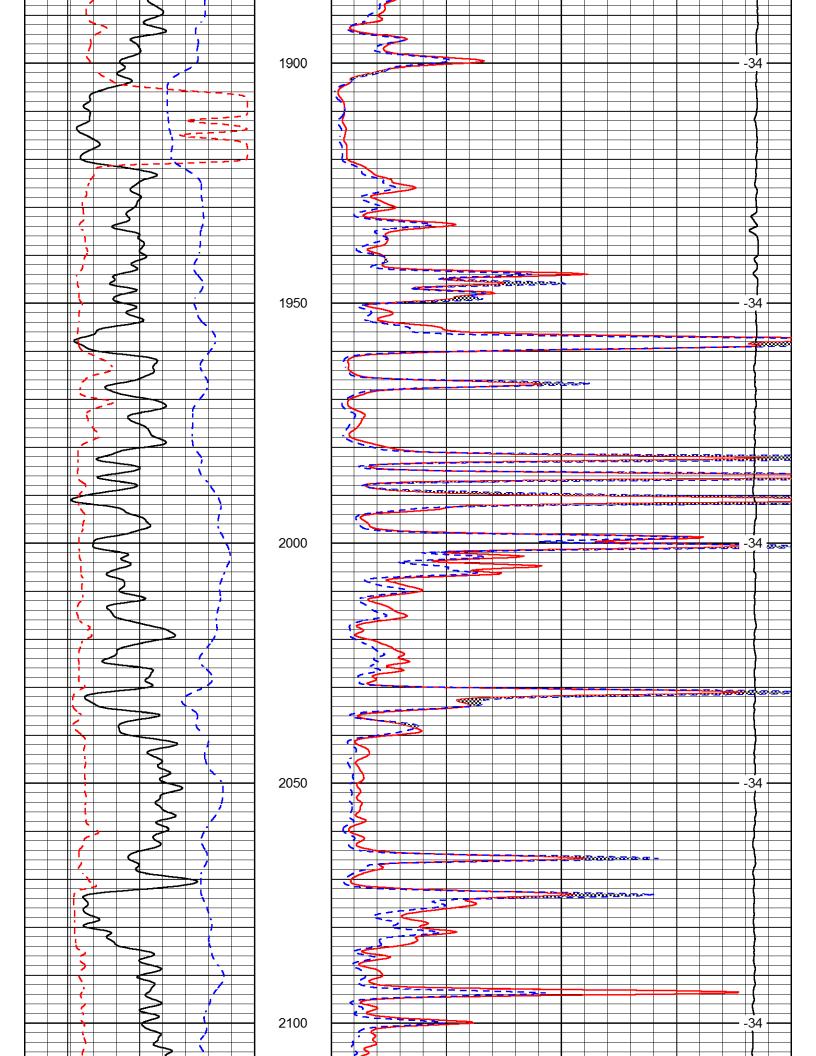


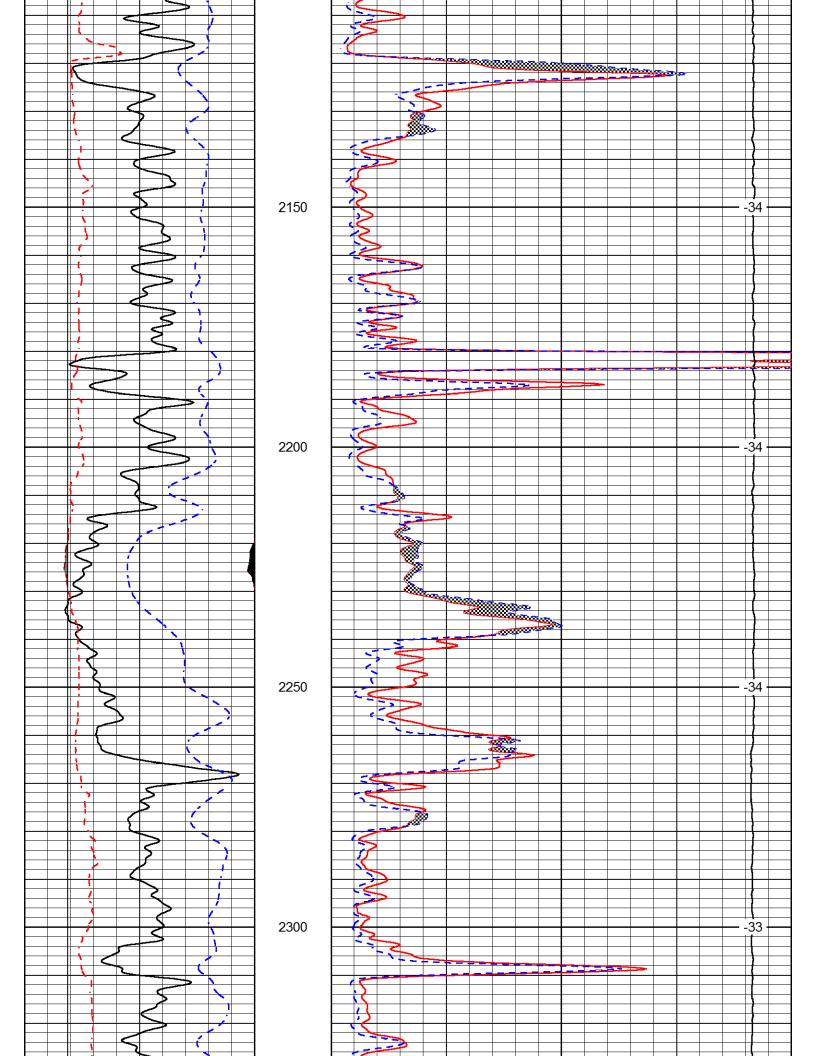


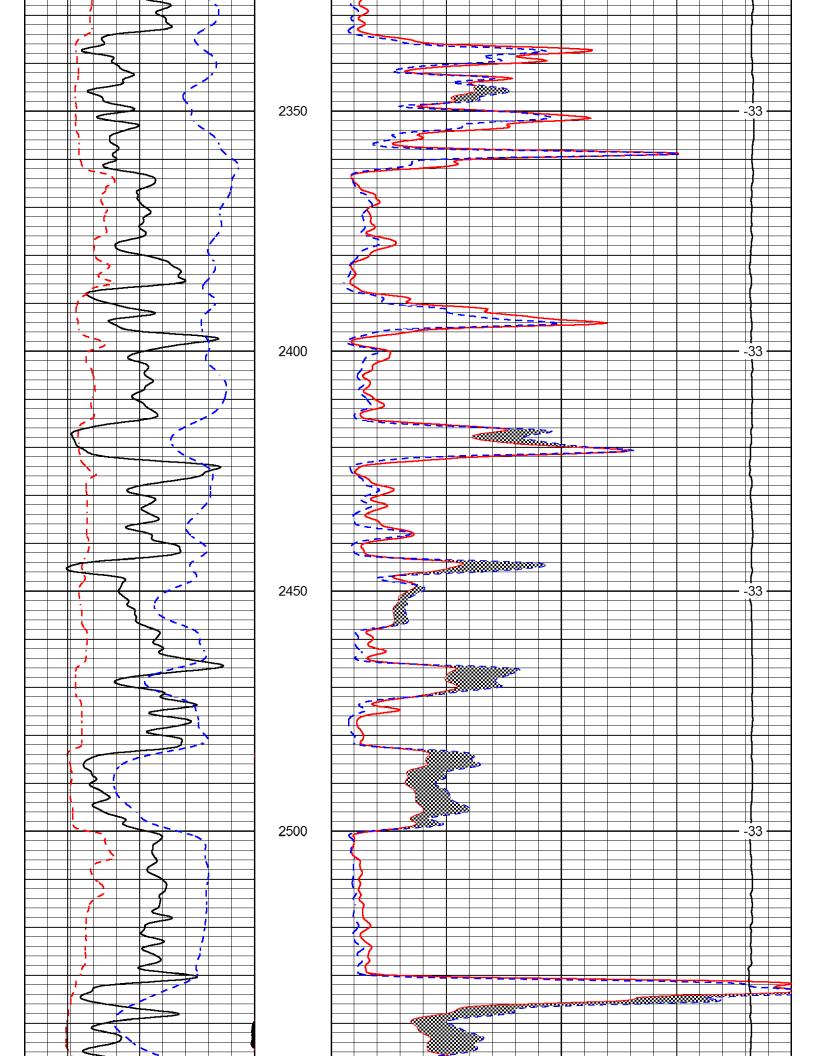


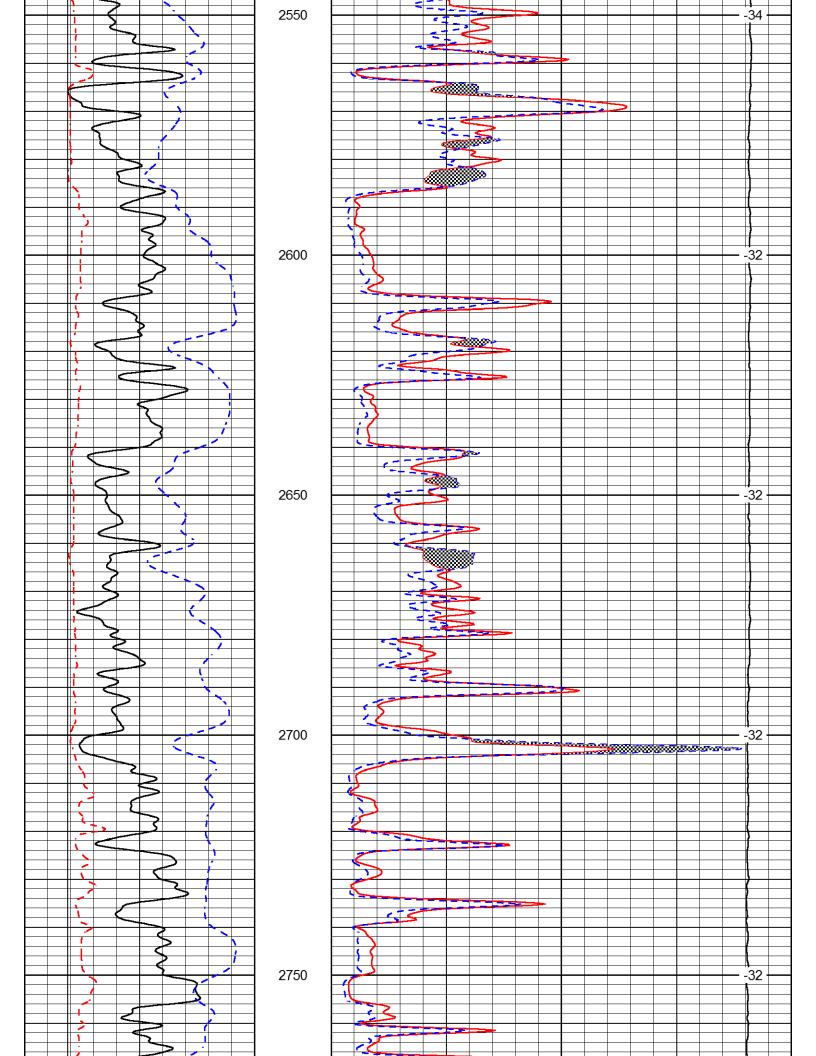


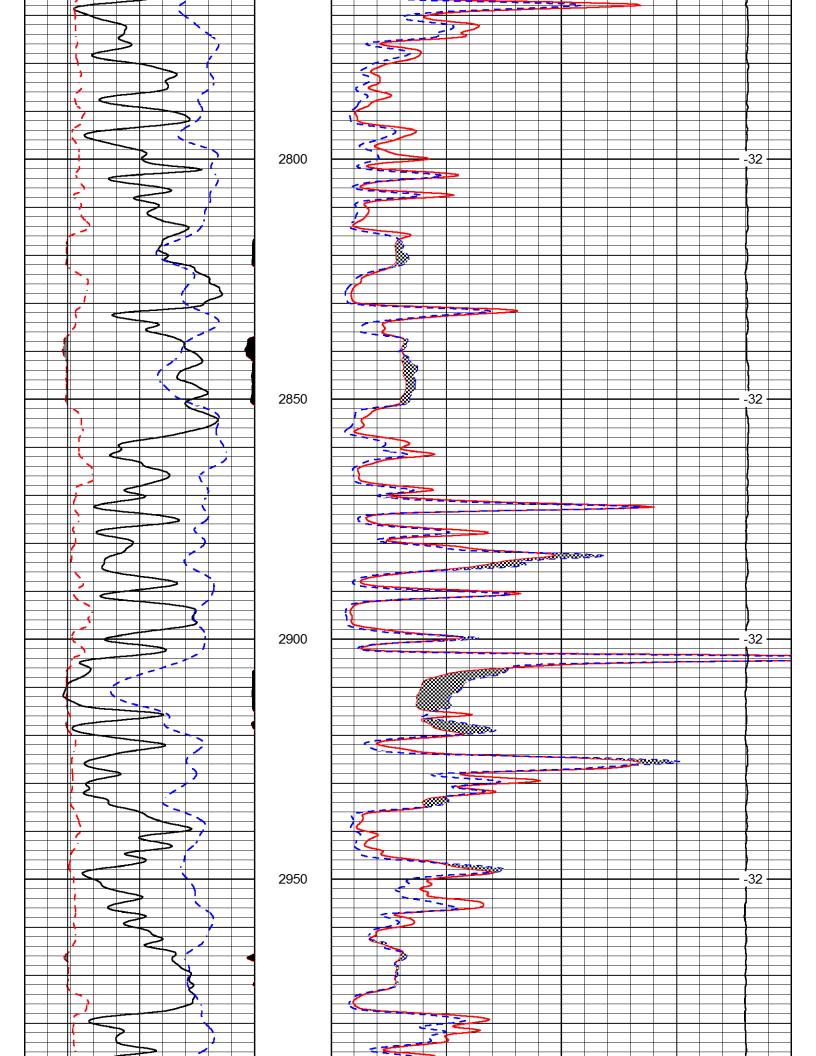


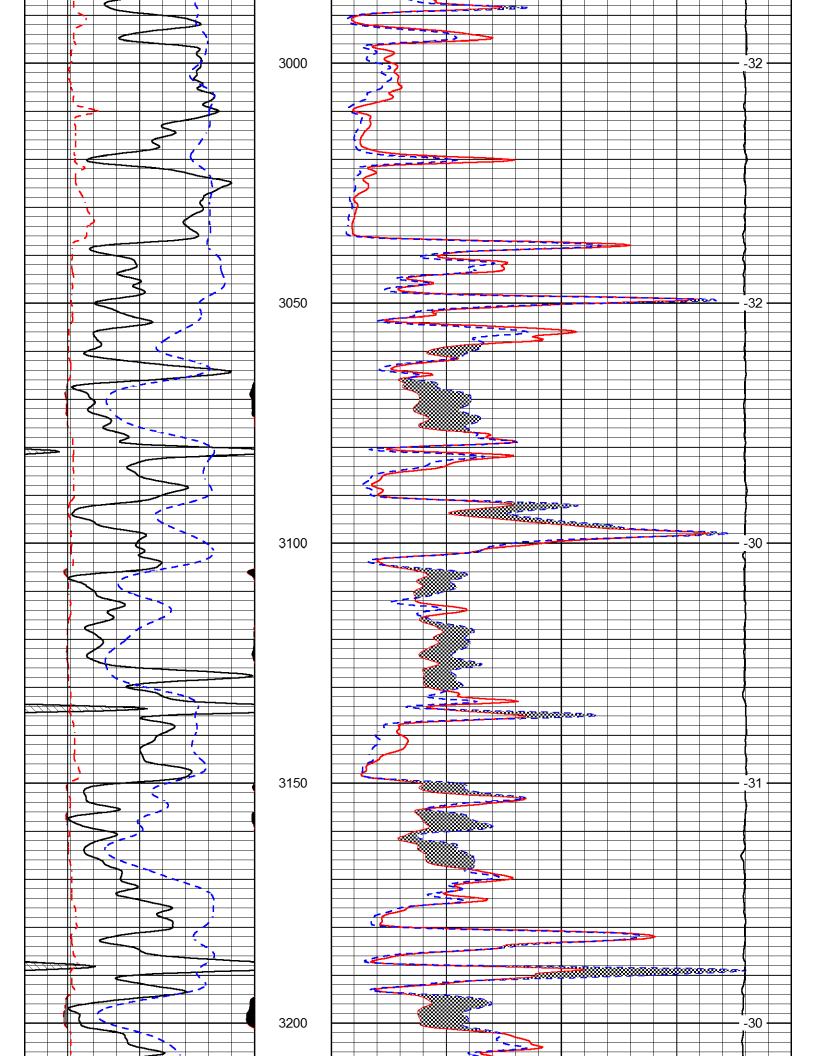


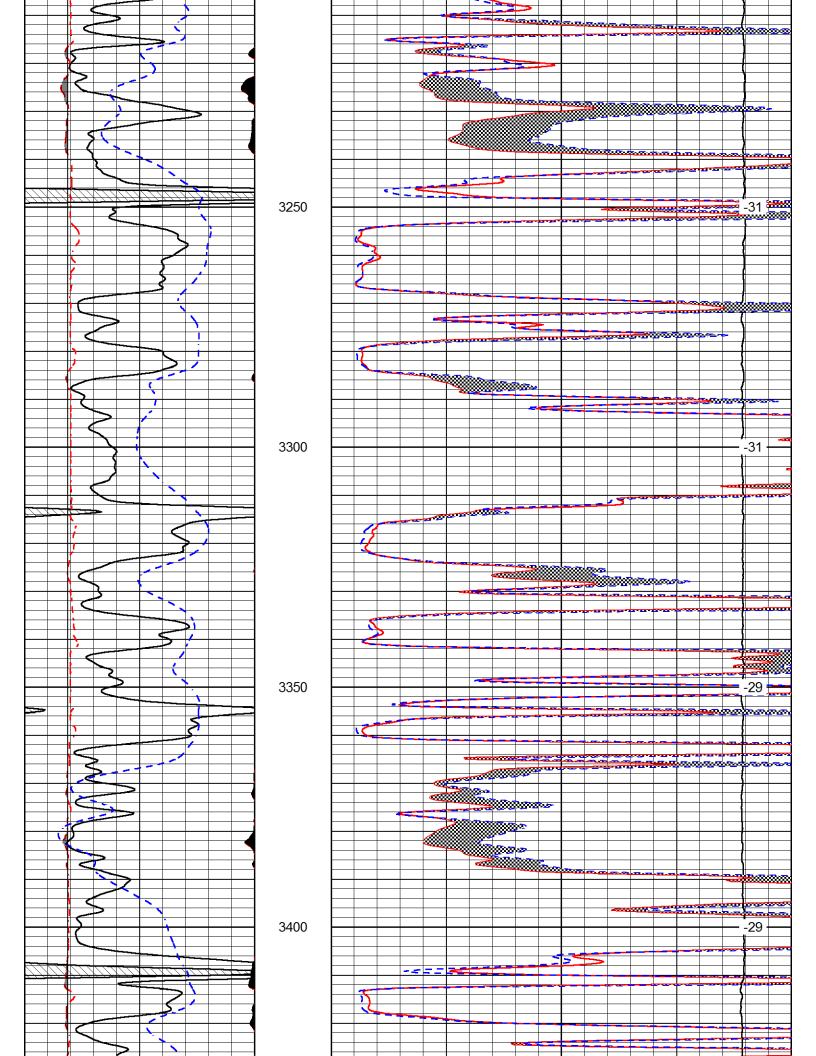


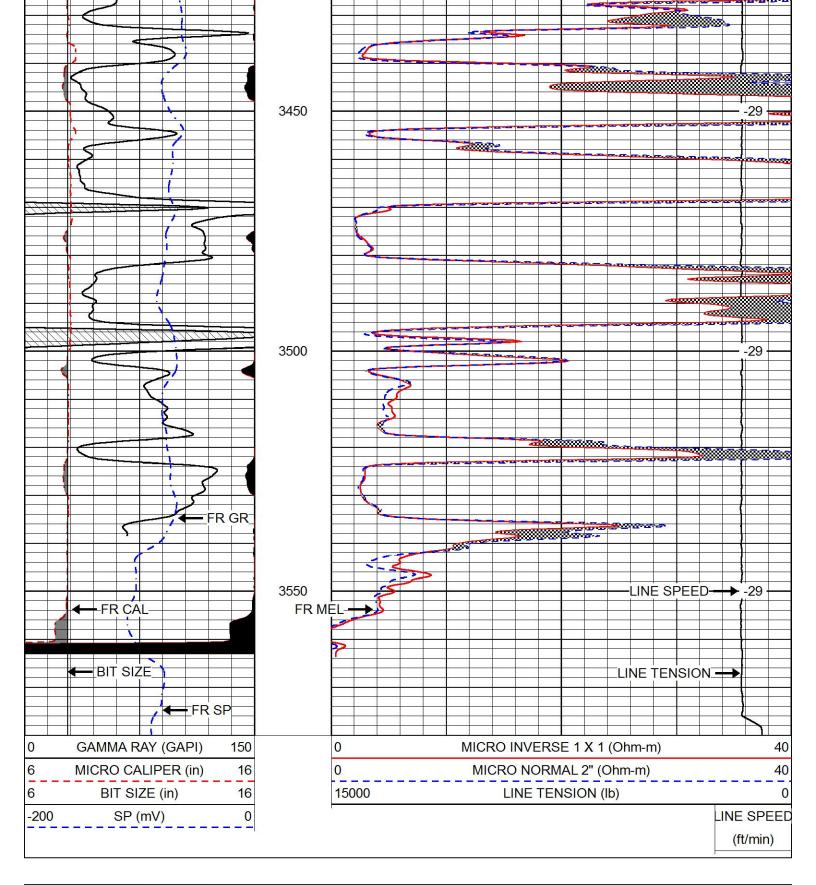














REPEAT SECTION

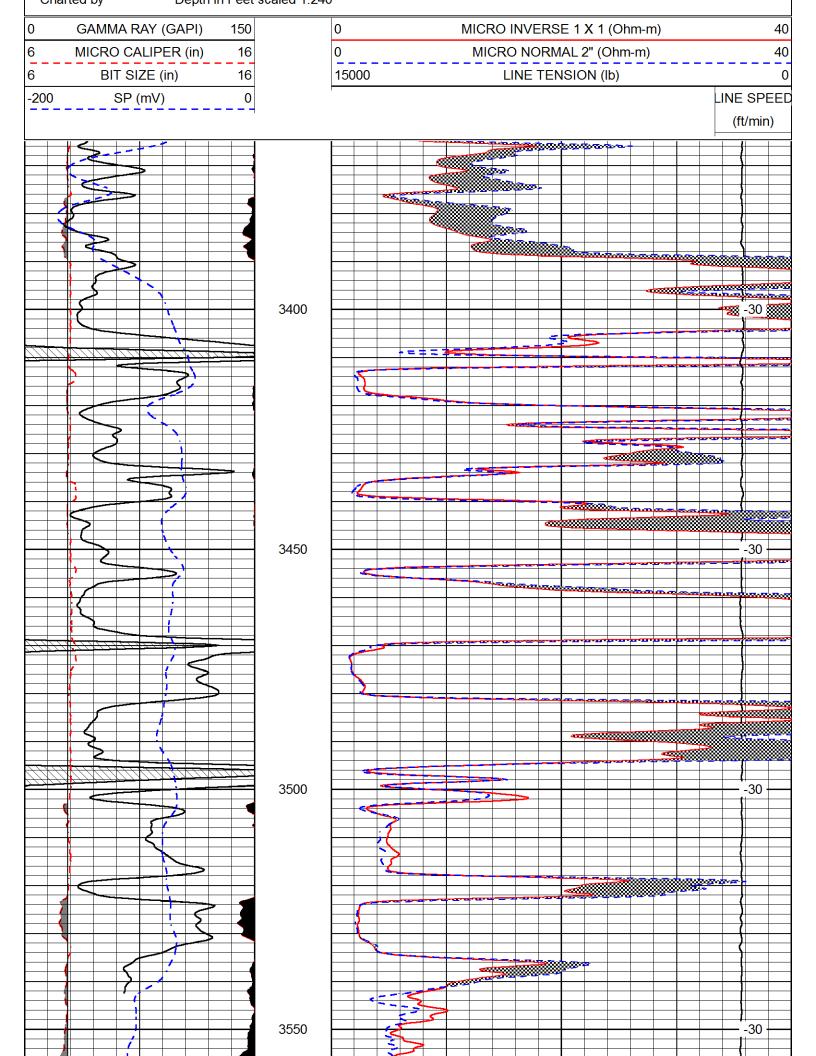
Database File Dataset Pathname

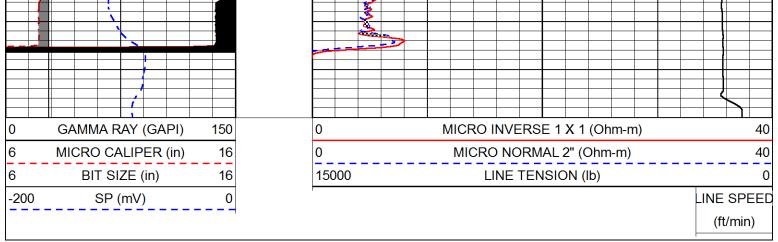
ampatriot_apo_18_wallerlowry_1.db

Presentation Format micro

Dataset Creation Thu Apr 28 15:55:11 2016 Charted by Donth in Foot coaled 1:240

stackmel/pass3.1





							(ft/min)
							,
Database File Dataset Pathnam Dataset Creation	e stackme	t_apo_18_wallerlowry_1.db	libration Repor	t			
		Dual Induc	tion Calibratior	n Report			
		Model: ation Performed:		987-M&W nu Mar 31 15	5:53:34 2016		
		Readings	i	References		Res	ults
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep Medium	178.615 161.982	710.235 1441.110	0.000 0.000	255.800 255.800	mmho/m mmho/m	0.530 0.440	-38.000 -110.500
		Microlog	g Calibration R	eport			
	Serial- Perfor	Model: med:		SI-02-PSI ST nu Apr 14 22			
		Readings	F	References		Res	ults
	Zero	Cal	Zero	Cal		m	b
Normal Inverse Caliper	0.0031 0.0000 1.0020	0.0043 0.0013 1.0834	0.0000 0.0000 5.5000	10.0000 10.0000 16.5000	Ohm-m Ohm-m in	10308.9000 7967.2700 135.1560	-0.2000 0.4000 -131.1700
		Compensated	Density Calibra	ation Report			
	Source	Model: e / Verifier: r Calibration Performed:	/	1-914-M&W nu Mar 31 16	3:30:19 2016		
Master Calibrat	tion						
		Density	Fa	r Detector	Near De	tector	

4314.49

822.19

Reading

Density/Spine Ratio = 0.534

5307.52

3456.36

cps

cps

Magnesium

Aluminum

1.755

2.670

Spine Angle = 75.49

Siza

g/cc

g/cc

_	OIZO		ricat	anig		
Small Ring Large Ring	4.00 14.00	in in		1.16 1.57		
Large King	14.00	111		1.57		
	C	Compensated I	Neutron Calibration	Report		
	1	Serial Number Tool Model: Calibration Pe	M&W		:04:05 2016	
Detector		Readings	Target		Normalization	
Short Space Long Space		6240.00 cps 460.00 cps		cps cps	1.6025 1.9500	
		Gamma R	lay Calibration Rep	ort		
Serial Number: Tool Model: Calibration Performe	d:	89-M&V M&W Thu Ma	N r 31 15:29:33 2016)		
Calibrator Value:	Calibrator Value:		GAPI			
Background Reading Calibrator Reading:	Background Reading: Calibrator Reading:		cps cps			
Sensitivity:		0.5200	GAPI/	cps		



Company AMERICAN PATRIOT OIL, LLC

Well APO #18 WALLER LOWRY #1

Field WILDCAT
County ROOKS
State KANSAS

·																	
Marc A. Downing G	eologic Report	Drilling Contractor WW Drilling, Rig #12 Commenced 4-15-16 Completed 4-29-16						'			'''				1 1 1 1		
Consulting Petroleum Drillin		Samples Saved From 3000 To RTD		S												30	
Geologist	g Time and Sample Log	Drilling Time Kept From 2900 To RTD Samples Examined From 3000 To RTD	INN #	ИАВ												-352 -352 -149 -149	
		Geological Supervision From 2900 To RTD	Delom Malo	- E												120 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	
Operator American Patriot Oil, LL	C Elevation KB 2048		renen a													2011	
Lease APO 18 Waller Lowry No. 1	DF GL 2040		Chert A A A													11. F.	
API # 15-163-24312-0000	Casing Record Surface			OIL SHOWS													
Field Wildcat	8 5/8" @ 250'	Summary and Recommendations	0 0 0 0 0	va l			م ا	4 , 3		3.5		*	SX PER S	\$.5 + \$ x	.1 ±1.	2 2 2 2 2	2 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Location 1670' FNL & 931' FWL	None	Due to structural position, DST recovery, and log evaluation, it was decided	<u> </u>	NO I			12 2	4 2 5 54	X X X 3		130年	X Z	ten ten chi	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$ 45 78	5. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	Eun, md-ces xin, sithydalan, Fass. 4-5 ox wi 3d vurge, 3d 4 stn. fr. 3d sfc. sithi hvy. amt who cuts, fint no dd. 4 chita, wht, sho, fass in 5 cat dalam chita, NS. 1 wi ben sh.
C . 24 T . 0 D	Electrical Surveys CNDL, DIL,	to plug and abandon the well.	storm storm				+ 4 2 2:	X X X X X X X X X X X X X X X X X X X	d XX	2 X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	4.554 4	7 × × × × × × × × × × × × × × × × × × ×	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ind md	State of the state	1 3 to 1 2 1
	MEL			DESC			3 - 5	SC Dam 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ 14 1 %	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	T E E F	12 PAIL	X X X X X X X X X X X X X X X X X X X	के के किया के किया है है जि	12 × 4 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6	Transfer to the	Ser s
County Rooks State Kan	sas			PI E			5 x x x x x x x x x x x x x x x x x x x	4 x x x x x x x x x x x x x x x x x x x	Shed in	7 7 7 7	H.H.S.	1 + 1 + 3 - 7 - 7	的 节星 1 计	\$ +30 ++ = 1	1-9 5 2 4 FE - 3	4 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A + + + + + + + + + + + + + + + + + + +
Formation Sample tops Log Top Anhydrite 1564	Tops Datum Struct Comp 563 +485 -11		9 8 8 1 3 7	SAM			1 × 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And the same	3 3 3 5 2	20 22 4	Soft to So	15 50	19 1 4 8 5 1 5 4 8 4 8 4 8 4 8 4 8 4 8 4 8 8 4 8 8 4 8 8 4 8 8 8 4 8	好的 3 新年 3 3 3 3 4 4 20	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	A 17 2 2 2
Base Anhydrite 1590	590 +458 NA						54 1,51 1,51	15 LS LS 2 N	10, 12, 15,	5 52.	72 LS:	1 5 4 5 ES	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 1 5 6 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	15 25 25 ES	12 22 182 18 18 18 18 18 18 18 18 18 18 18 18 18	15. 7 15. 7
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	246 -1198 -17		THE S								H H H H H H H I I I I I I	11.4 - 11.1.1	T 1,11,11,7 \$ 7 1,11,17	- [[+']] - - - -'\-4- - - - -'	1,11 + - +,11,- + 1 + 1 + - 1		1.1.7 7.5 2.7 7 9 2 9/41
1010110	268 -1220 -17 285 -1237 -17		THE SHE	100 100		4		8	_	8		90,		490		8-1	
BKC 3507	503 -1455 -19			0 2	×	38		~	8	2 8	Š	33	X	37	\sim	*	ÿ ⊙
Arbuckle Not Reached				1 S 4 S										5			X X
Total Depth 3578	576 -1528		1 55550 3	NEW Control of the co			26					24/8				65 / ₁	30)
		Respectfully Submitted,		N 10 0 10 10 10 10 10 10 10 10 10 10 10 1			4 0				gwei 14/12	1-18 1-17 8(-1)					
		Shell Solds		PER			304				324	3271 3271 328				350.	N Z
		Marc A. Downing		For the state of t	\sim								1-1		~ ~~~~~	Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ	
Reference Well For Structural Comparison Black									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	why when we	www	M.,	Andrew Manager	- Mrs Mrs / Mary /	~ ~ [E
Lowry #1 NE NW NW	Sec. 31-8s-19w			I IIII MIIII				u i i i i i i i i i i i i i i i i i i i								ABBREACH RAISE THE HERBE TANDED TO STANDED	

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD	hand sortificate wit according at the registration was not become the second of the second
RUSSELL, KS 67665	SERVICE POINT:
SW NE SW NH	1/55ell KS.
DATE 4 - 15-2016 SEC. TWP. RANGE	CALLED OUT ON LOCATION JOB START JOB FINISH
APO-HIR	ON LOCATION JOB START JOB FINISH
LEASE WAIR LOWE WELL #. LOCATION	COUNTY STATE
OLD OR NEW (CIRCLE ONE)	WHICH ZW GN IW 125 ROOKS KONSOS
	AE INTO
CONTRACTOR W-W DRIG R. 12" CAL	And the first of t
TILL OF JOB (Company of the party of	UEA OWNER
HOLE SIZE 12 V4 T.D. 263	CEMENT
TURING SIZE DEPTH 263	AMOUNT ORDERED 175 SX Come
DEPTH DEPTH	3%CC
TOOL DEPTH	225eL
PRES. MAX 2 SCHOOL MINIMATING	ASSESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND A
MEAS, LINE SHOE JOINT	COMMON @
CEMENT LEFT IN CSG. 15-20 PERFS	POZMIX @ GEL
DISPLACEMENT	CVIII CORRES
EQUIPMENT EQUIPMENT	ASC @
the second secon	@
PUMP TRUCK CEMENTER GRANG.	@
# P-2 HELPER CODY H.	@
	@
# B-5 DRIVER BRANDON S. BULK TRUCK	
# DRIVER	<u> </u>
Sales and the sa	<u> </u>
13 feet management of the last test the second	HANDLING@
REMARKS:	MILEAGE
RAN 6 New JONTS OF # 85/200	TOTAL
Set (a) Recieved CIRCULATION	The state of the second state of the second
Diement w/195 sx com 3 02	SERVICE
Shirt GBL Hz	DEPTH OF JOB
MANKE	PUMP TRUCK CHARGE
THAT!	EXTRA FOOTAGE @
CEMENT VIDCIACULATE	MILEAGE@
A CONTRACTOR OF THE PARTY OF TH	MANIFOLD @
ANTERIOR D	
CHARGE TO: AMERICAN PATRIOT DIL LIC	@
TREET	TOTAL
ZITY STATE ZIP	and delegated true has been always at the many when desired the between
MINO CHANGE OF THE MONTH DESCRIPTION OF THE OWNER.	PLUG & FLOAT EQUIPMENT
Global Cementing, L.L.C.,	The silver and a few states of the silver and the s
ou are hereby requested to rept compating.	and @
nderstand the "GENERAL TERMS AND CONDITION sted on the reverse side.	S" @
Do	to contract, will be the asset of an incident of the first party
RINTED NAME COSTUM PHANEUSTIC	TOTAL
/// //	SALES TAX (If Any)
GNATURE (Le farmly	TOTAL CHARGES
	DISCOLDIT
	DISCOUNT IF PAID IN 30 DAYS



DIAMOND TESTING, LLC

P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313 APO#18DST#1STRADDLE

Company American Patriot Oil, LLC	Lease & Well No. APO #	18 Waller Lowry No. 1
Elevation 2045 EGL Formation Lansing/Kansas City "L"	Effective Pay	Ft. Ticket NoP0108
Date <u>4-28-16</u> Sec. <u>31</u> Twp. 8S Range	2 19W County R	ooks State Kansas
Test Approved By Marc Downing	Diamond Representative	Michael Carroll
Formation Test No1 Interval Tested from	3,490 ft. to 3,52	1 ft. Total Depth 3.576 ft
Packer Depth3,485 ft. Size6 3/4 in.	Packer Depth	3,521 ft. Size6 3/4 in.
Packer Depth3,490 ft. Size6 3/4 in.		ft. Sizein.
Depth of Selective Zone Set 3,521 ft.		
Top Recorder Depth (Inside) 3,478 ft.	Recorder Number	
Bottom Recorder Depth (Outside)ft.		erpsi.
Below Straddle Recorder Depth3,556_ft.	Recorder Number	er0230
Drilling Contractor WW Drilling, LLC - Rig 12	Drill Collar Length	121 ft I.D. 2 1/4 in
Mud TypeChemicalViscosity62	Weight Pipe Length	ft I.Din.
Weight9.4 Water Loss7.2 cc	Drill Pipe Length	3,336 ft I.D. 3 1/2 in.
ChloridesP.P.M.		33 ft Tool Size 3 1/2-IF in.
Jars: MakeSterling Serial Number11		f. w/55' tail pipe Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No		1 in. Bottom Choke Size 5/8 in.
	Main Hole Size	7/8 in. Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Weak, surface blow increasing to 1/2 in., then decreasing	g to a weak, surface blow. No blow	back during shut-in.
2nd Open: No blow. No build. No blow back during shut-in.		
2 mud = 000940 bbls (Crind out: 100% mud)		
Recovered2 ft. of mud = .009840 bbls. (Grind out: 100%-mud)		
Recoveredft. of		
Recoveredft. of		
Recovered ft. of		
Recovered ft. of		
Recoveredft. of		
Remarks Tool Sample Grind Out: 100%-mud with oil specks		
Below Straddle Psi: 1,400		
Time Set Packer(s) 11:04 P.M. Time Started off Bo	ttom 1:04 A.M.	Maximum Temperature105°
Initial Hydrostatic Pressure(A	1710	
20		to (C)18_P.S.I.
20	D) 29 _{P.S.I.}	
20		to (F)19 P.S.I.
Tillari low i crica	G) 25 P.S.I.	
Final Hydrostatic Pressure(1000	
,		



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

Hoisington, Kansas

General Information

Company Name American Patriot Oil, LLC

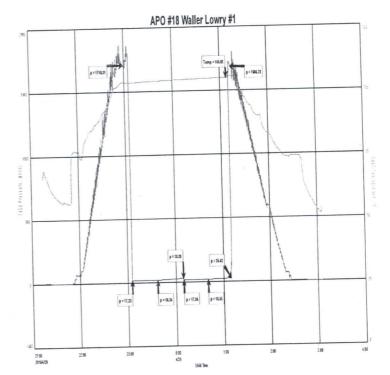
Contact Well Name Unique Well ID Surface Location Field Well Type **Test Type** Well Operator

Douglas Stewart APO #18 Waller Lowry #1 Dst #1 L/KC "L" 3490-3521' Straddle Sec 31-8s-19w Rooks County Wildcat Vertical **Drill Stem Test** American Patriot Oil, LLC

Formation Well Fluid Type **Test Purpose** Start Test Date Start Test Time **Final Test Time** Job Number Report Date Prepared By

Dst #1 L/KC "L" 3490-3521' Straddle

01 Oil **Initial Test** 2016/04/28 21:15:00 03:10:00 P0108 2016/04/28 Michael Carroll



TEST RECOVERY

Remarks Recovery:

2'

Mud

100% M

Tool Sample:

100% M With Oil Specks

DIAMOND TESTING, LLC P.O. Box 157

HOISINGTON, KANSAS 67544-0157 (800) 542-7313

		,			
DRILL	-STI	EM T	FST	TICI	KFT

TIME ON:	2115	4-28
TIME OFF:	0310 9	1-29

DRILL-STEM	TEST TICKET
Company AMERICAN PATRIOT OIN LIC	Lease & Well No. A PO# 18 WALLER LOWPY
Contractor WN RIGIZ	Charge to AMKRICAN PATRIOT DIN LLC
Elevation 2045 x57 Formation LAUS KC "L"	Effective Pay Ft. Ticket No. P0/08
Date 4-28-16 Sec. 31 Twp. 8 S Ra	17
Test Approved By	_ Diamond RepresentativeMICHAEL CARROLL
Formation Test No. — Interval Tested from 349	0 ft. to 352/ ft. Total Depth 351/6 ft.
Packer Depth 3485 ft. Size 6 3/4 in.	OMO I
Packer Depth 3490 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 3448 ft.	Recorder Number 5950 Cap. 5K P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number Cap. P.S.I.
Below Straddle Recorder Depth 3556 ft.	Recorder Number 0230 Cap. 5K P.S.I.
Mud Type (HFM) Viscosity 62	Drill Collar Length
Weight 9.4 Water Loss 7.2 cc.	Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 4/800 P.P.M.	Drill Pipe Length 3336 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4	Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Reversed Out	Anchor Length 31 65 Talk It. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 / H in.	Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Blow: 1st Open: 18 B-BUILT TO 1/2" THEN !	XCRKASKO TOWSE NOBB
2nd Open: No Liew-No Burns	NoBB
Recovered 2 ft. of Mus 100% M	
Recovered 2 ft. of TOTAN FAULD	
Recoveredft. of	
Recoveredft. of	THANK YOU
Recoveredft. of	Price Job
Recoveredft. of	Other Charges 190 Mysk 3
Remarks: Took SAMPLE: 100% M.	ITH CIASPECKS Insurance
EKNUM STRADDIK PSI: 1400	Total
Time Set Packer(s) // P.M. Time Started Off Bo	ottom/.*04/ A.M. Maximum Temperature/05°2
Initial Hydrostatic Pressure.	(A) /7/O P.S.I.
Initial Flow PeriodMinutes	(B)P.S.I. to (C)/8P.S.I.
Initial Closed In PeriodMinutes	(D) 29 P.S.I.
Final Flow Period Minutes 30	(E) /8 P.S.I. to (F) /9 P.S.I.
Final Closed In PeriodMinutesMinutes	(G)P.S.I.

P.S.I.