

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1064258

Form must be typed Form must be signed May 2009

Venting / Flaring

ID #____

APPLICATION FOR VENTING OR FLARING OF GAS OTHER THAN CASINGHEAD GAS (K.A.R. 82-3-314)

Operator Information:		Well Information:		
OPERATOR: License #		API No. 15		
Name:		Spot Description: _		
Address 1:			Sec Twp	S. R East West
Address 2:			Feet from	North / D South Line of Section
City:	State: Zip: +		Feet from D	East / 🗌 West Line of Section
Contact Person:		County:		
Phone: ()		Lease Name:		Well #:
A. Formation/Interval	and estimated BTU Value of gas to be	vented:		
Formation:	Interval:	Estimated BTU Va	lue:	
B. Expected Maximum	n Gas Vented Volume:			
Formation:		BOPD:	MCFPD:	BWPD:
Include the following attac	rrest pipeline or gathering facility:			
· ·	ct well, if available. If not available attach,		ailable.	
	pletion form for the subject well, Form AC	0-1.		
3. Method of measuring				
	of why venting or flaring is necessary.			
5. Signed certificate sho	owing service of the application and affida	avit of publication as required in K	.A.R. 82-3-135a.	
Include the following for c	oalbed natural gas venting application	as only:		
6. Plat Map including lo of offsetting operators	cation of subject well, all other wells on su s.	ubject lease and all wells on offse	tting leases. Include the	e names and address
7. Completed Affidavit f	or Venting of Coalbed Natural Gas, Form	CG-4.		
		AFFIDAVIT		

I am the affiant and I hereby certify that to the best of my current information, knowledge and personal belief, this request to vent/flare natural gas is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

KCC Office Use Only										
Denied Approved	Permit Expires:									
15-Day Periods Ends:										
Approved By:	Date:									

Submitted Electronically

Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of the application.

Form ACO-18

Schmidt Flaring Permit

- A. Formation Mississippi, 4466'-8670', Est. BTU 1190
- B. Formation Mississippi, BOPD 100, 1.5 MMCFD, 3000 BWPD
- C. Distance to pipeline ~4 miles
- 1. Attached logs to ACO-1 in Kolar
- 2. ACO-1 Submitted
- 3. Flow through a test separator with gas metering capabilities.
- 4. The Schmidt 3-34-4 1H requires flaring for production test and field appraisal. Procurement of gas pipeline Right of Way and construction of pipeline is currently in progress, but will not be completed in a timeline suitable for field appraisal and development planning. Chesapeake will discontinue flaring operations once gas pipeline is available.

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

In the Matter of Chesapeake Operating, Inc.'s Application for Venting Authority Under Regulation K.A.R. 82-3-314(b) [2] Applicable to the Schmidt 3-34-4 1H Well located in Sumner County, KS.

TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whomever concerned.

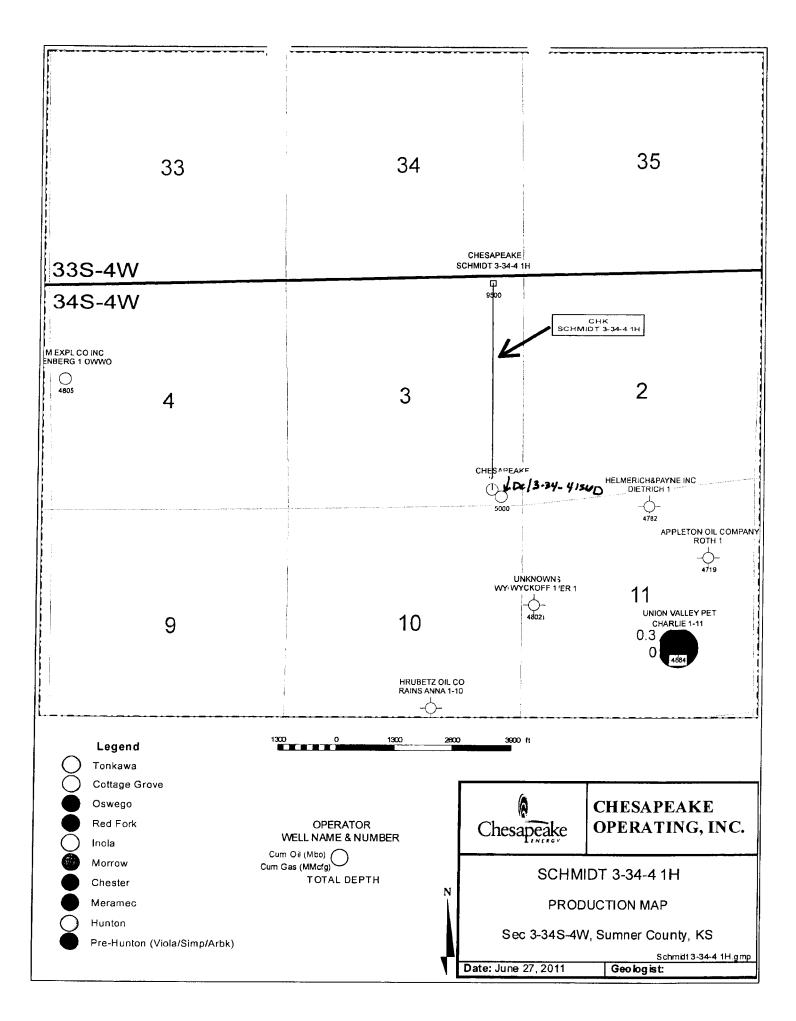
You, and each of you, are hereby notified that Chesapeake Operating, Inc. has filed an application seeking permission to continuously vent produced natural gas for longer than 7 days in order to gauge available reserves, perform production tests and field appraisal prior to start-up of production from this well and completion of gas pipeline. The well we are seeking permission to vent is the Schmidt 3-34-4 1H, located in the NE/4 NE/4 of Section 3, T34S-R4W, Sumner County, Kansas.

Any persons who object to or protest this application shall be required to file their written objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting of the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All persons and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.

Upon receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73154-0496 (405) 935-8000



AFFIDAVIT OF SERVICE

ACO-18 for Schmidt 3-34-4 Section 3-34S-4W, Sumner County, Kansas

I, Aletha M. Dewbre, employee of Chesapeake Operating, Inc., do hereby state that a true and correct copy of ACO-18 for the Schmidt 3-34-4 1H Well, in Sumner County, Kansas, was mailed to the following on September 29, 2011:

Delbert L. Schmidt 7315 N. McKinley Avenue Kansas City, MO 64158

There are no offset operators, unleased mineral owners and lessee/leasehold owners other than Chesapeake. Chesapeake owns all applicable offsets.

The above list represents all applicable owners entitled to notification of this application for flaring gas.

12hu By:

)) ss

Aletha M. Dewbre Regulatory Compliance Specialist Chesapeake Operating, Inc.

STATE OF OKLAHOMA

COUNTY OF OKLAHOMA

Subscribed and sworn to before me this 29th day of September, 2011.

emus Notary Public

My Commission Expires: 28



CONFIDENTIAL KANSAS CORPORA OIL & GAS CONSE	RVATION DIVISION Form Must Be Typed
WELL HISTORY - DESCRI	
OPERATOR: License #	API No. 15
Purchaser:	Producing Formation:
If Workover/Re-entry: Old Well-Info as follows: Operator:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name: Lease Name: Quarter Sec TwpS. R Dermit #:

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.

Signature: _____

Title: ____

_____ Date: ____

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

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	Side Two	
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East Uest	County:	

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

			~						
Drill Stem Tests Taken (Attach Additional Sheets)	Yes	No			_	ormation (Top), De	pth and Datum		Sample
Samples Sent to Geological Survey	Yes	No No		Name	-		Тор		Datum
Cores Taken Electric Log Run Electric Log Submitted Electronically (If no, Submit Copy)	☐ Yəs ☐ Yes ☐ Yes	No No	7		\sim				
List All E. Logs Run:		\sim	\leq						
~			RECORD						
			-			production, etc.			
Purpose of String Size Hole Drilled		Casing n-Q.D.)		'eight s. / Ft.	Sett Dep				and Percent Additives
	$\setminus \lor$	7							
		$\langle -$							
-		ADDITIONA		TING / SQU	FF7F RF				
Purpose: Depth Perforate Top Bottom	Type of	f Cement		ks Used			e and Percent Addit	tives	
Protect Casing	\sim	J							
Plug Off Zone									
Shots Per Foot PERFORM	TION RECORD	- Bridge Plug ch Interval Pe	gs Set/Typ rforated	e	A	Acid, Fracture, Shot, C (Amount and Kir	Cement Squeeze Re and of Material Used)	ecord	Depth
$\langle \rangle$									
TUBING RECORD: Size:	Set At:		Packer	· At:	Liner Ru	un:	No		
Date of First, Resumed Production, SWD or E	NHR. [Producing Met	thod:	ping	Gas Lift	Other (Explain)		
Estimated Production Oil Per 24 Hours	Bbls.	Gas	Mcf	Wate	Pr	Bbls.	Gas-Oil Ratio)	Gravity
									2\/AL -
DISPOSITION OF GAS:	e Op	en Hole	Perf.	OF COMPLE	Comp.	Commingled	PRODU	CTION INTER	WAL:
(If vented, Submit ACO-18.)		ner (Specify) _	-	(Submit A		(Submit ACO-4)			
							1		

Form	ACO1 - Well Completion
Operator	Chesapeake Operating, Inc.
Well Name	Schmidt 3-34-4 1H
Doc ID	1063926

Casing

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Casing		/	\sim				
Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Tyep and Percent Additives
conductor	24	20	75	120		168	
surface casing	12.25	9.6250	36	500		270	
intermedia te	8.75	7	26	4962		400	
production	6.1250	4.5	13.5	8670		550	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

September 23, 2011 Aletha Dewbre Chesapeake Operating, Inc. 6100 N WESTERN AVE PO BOX 18496 OKLAHOMA CITY, OK 73118-0496 Re: ACO1 API 15-191-22631-01-00 Schmidt 3-34-4 /1H NE/4 Sec.03-34S-04W Sumner County, Kanşas

Dear Production Department

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Aletha Dewbre ۰.

Cementing Job Summary

Sold To #: :				Ship	To #: 2872	668		Quote #	-			Sales	s Orde	#: 84	25212	 !
Customer:	UHES/	APEAK	E O	PERAT				Custom	er Rep:	Lee,	King	-)				
Well Name: Field:	Schm	at 3-34				Well #:	1H				API/L	WI #:				
	la fi a m			ity (SAI): CALDW	ZLL 🔨	County	Parish:	Sumne	r		State	: Kans	as		
Legal Desci Contractor:	Trinin	: Secti	on 3	Iowns												
					Rig/Pla	afform	Name/N	hum: 2	05							
Job Purpos Well Type: [nent ir	itern	nediate												
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Sales Perso		AVVEC	JRD,	, RUBEI	RI STYCS	upervis	or: W	ALTON,	SCOTT	ΥI	MBU ID E	Emp #:	47822	9		
HES Emp	Namo	Ev	p Hr	s Emp	#/1 /			sonnel	<u> </u>							
ARCHULET				45426		S Emp N			s Emp			Emp Na		Exp H		mp
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HES Unit #	Dista	nce-1 v	vay	HES U	nit # Dist	ance-1 v	· · · · · · · · · · · · · · · · · · ·	HES Un	t# Di	stanc	e-1 way	HES	Unit #	Diet	ance-1	
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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density	Yield ft3/sk	Mix Fluid Gal/sk	1	Total Mix Fluid Gal/sk
LL				1	lbm/gal		1		

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# **Cementing Job Summary**

Fluid #	Stage Type		Fluid N	lame	7	Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/s
1	Water			1	$\langle -$		bbl	8.6	.0	.0	.0	
2	VERSA BLEND	VERSA	CEM (TM) SY	STEM (452	2010)		sacks	12.5	2.02	9.9		9.9
	10 %	CAL-SE	AL 60, BULK	(10006402	2)							
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Ceme	ent Left In Pipe	Amount	42 ft Rea	son Shoe	Joint	/		1	ł			
Frac R	ing # 1 @	ID 🔇	Frac ring # 2		D	Frac Rin	a # 3 @	ID		Frac Ring #	4@	ID
The	e Information					er Represe	entative S					

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# **Cementing Job Log**

Sold To #: 344659	Ship To #: 2872	668/ /	llence Starts Quote #:			Sale	s Order #: 8425212
Customer: CHESAPEAKE OPE	RATING INC EB	USINESS	Custome	r Rep: Le	e Kina	Jaies	5 Oluel #, 0420212
Well Name: Schmidt 3-34-4		Well #: 1H				/UWI #:	·····
Field: City	(SAP): CALDWE	LL/ Cour	ty/Parish: S	umner	<u>r</u> .		Kansas
Legal Description: Section 3 T	ownship 34S Ra	nge 4W			••••		
Lat: N 0 deg. OR N 0 deg. 0 mi		/	Long: E (	deg. OF	RE0 deg	. 0 min. 0	) secs
Contractor: Trinidad	Rig/Pla	tform Nan	ne/Num: 205				
Job Purpose: Cement Intermed	liate Casing			/	Ticket	Amount:	
Well Type: Development Well	/Jg6 Ty	pe: Cemer	t Intermediat	e Casing			
Sales Person: CRAWFORD, RO	DBERT STVC S	upervisor:	WALTON, S	COTTY	MBU I	) Emp #:	478229
Activity Description	Date/Time		51/ h	ume bl	1 1042 577	isure sig	Comments
		#	Stage	Total	Tubing	Casing	
Call Out	09/03/2011					casing	Scotty Walton, Daniel
	12:00	N.	$\mathbf{i}$				Turner, Eric Archuleta
Pre-Convoy Safety Meeting	09/03/2011 13:00						Scotty Walton, Daniel Turner, Eric Archuleta
Depart from Service Center or	09/03/2011	_ 7					
Other Site Arrive At Loc	14:00	<u> </u>					
Other	09/03/2011 15:00						Arrived at Location Safely, Went over job procedures, calculations and safety hazards.
	09/03/2011 15:05	>					Upon Arriving to Location: Rig Was Pulling Out Drillpipe fron Wiper, Tested Water, Started Running Casing
Assessment Of Location Safety Meeting	09/03/2011 15:10	41 1 0 1 (Å) 1 He där <del>oc</del> eaner					Identified all Potental hazards and Safe Work Zones
Pre-Rig Up Safety Meeting Rig-Up Equipment	09/04/2011 03:45 09/04/2011						All HES Personell Present (watch for trip hazards, low lite areas, pinch points, confined spaces, and wear all appropriate PPE)
	04:00					roman and the second	
Rig-Up Completed	09/04/2011 04:50						Rig Up Completed Safely
tig-Up Equipment	09/04/2011 05:00						Stabbed Cementing Head and Rigged Up Bales from Standpipe to Head
ig-Up Completed	09/04/2011 05:29						Rig Up Completed Safely
irculate Well	09/04/2011 05:30						Rig Circulated Well for 1HR

SUMMIT Version: 7.2.27

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# **Cementing Job Log**

		/ 7Rate	Volume	Pressure	
Activity Description	Date/Time	Cht bbl/	bbi	psig	Comments
			Stage   Total	Tubing   Casing	
Pre-Job Safety Meeting	09/04/2011 06:00				All HES, Customer Rep., and Rig Crew Present ( Went over dangers of being near pressurized lines, PPE, Pumping Procedures, heat stress and safe zones, muster point, and nearest hospital)
Pressure Test	09/04/2011 06:16				Test Lines to 5000PSI ( Rig Floor Clear, and Pumping Equipment area Clear)
Pump Spacer	09/04/2011 06:19	5.5	10	350.0	Pump 10BBL of Freshwater Spacer
Pump Lead Cement	09/04/2011 06:24	5.5	75	275.0	Pump 75BBL of 12.5PPG Versablend Standard Cement (210SKS, 2.02ft3/sk, 9.9gal/sk)
Shutdown	09/04/2011 06:38				Pumping Cement Completed
Drop Top Plug	09/04/2011 06:39	<b>`</b>			Plug Left Cementing Head
Pump Displacement	09/04/2011 06:40	7	188	250.0	Started Displacement Pumping 7BPM Until Displacement Reaches Cement
Displ Reached Cmnt	09/04/2011 96:54	6	95	900.0	Slowed Rate from 7BPM to 6BPM Caught Cement 95BBL Into Displacement
Slow Rate	09/04/2011 07:08	3	175	800.0	Slowed Rate to Bump Plug
Bump Plug	09/04/2011 07:11	3	188	1300. 0	Bumped Plug 500Psi Over Pumping Pressure
Check Floats	09/04/2011 07:14				Floats Held
Pre-Rig Down Safety Meeting	09/04/2011 07:15				All HES Personell Present (Went Over Heat Stress, PPE, Pinch Points, Trip Hazards, and Importance of Communication)
Rig-Down Equipment	09/04/2011 07:20				
Rig-Down Completed	09/04/2011 08:20				Rig Down Completed Safely

### HALLELFTON

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## **Cementing Job Log**

# Stage Total Tubing Casing   Depart Location Safety 09/04/2011 Scotty Walton, Daniel   Meeting 08:25 Turner, Eric Archuleta   Depart Location for Service 09/04/2011 Scotty Walton, Daniel	Activity Description	Date/Time	Cht	Rate bbl/ min		ume bl		sure sig	Comments
Meeting     08:25     Turner, Eric Archuleta       Depart Location for Service     09/04/2011     Scotty Walton, Daniel			/#4	*****	Stage	Total	Tubing	Casing	
Depart Location for Service 09/04/2011 Scotty Walton, Daniel	Depart Location Safety	09/04/2011	N						Scotty Walton, Daniel
			/		~				Lurner, Eric Archuleta
	Center or Other Site	08:30							Turner, Eric Archuleta

ATTENTION: THRORTANT REGULATORY DOCUMENT retain for your records and file with appropriate agency. HALLIBURTON **Cementing Job Summary** The Road to Excellence Starts with Safety Sold To #: 344659 Ship To #: 2872668 Quote #: Sales Order #: 8404813 Customer: CHESAPEAKE OPERATING INC EBUSINESS Customer Rep: Lee, King Well Name: Schmidt 3-34-4 Well #: 1H API/UWI #: Field: City (SAP): CALDWELL County/Parish: Sumner State: Kansas Legal Description: Section 3 Township 34S Range 4W Contractor: Trinidad Rig/Platform Name/Num: 205 Job Purpose: Cement Surface Casing Well Type: Development Well Job Type: Cement Surface Casing Sales Person: CRAWFORD, ROBERT/ Srvc Supervisor: UNDERWOOD, BILLY MBU ID Emp #: 159068 Job Personnel **HES Emp Name HES Emp Name** Exp Hrs Emp # **HES Emp Name** Exp Hrs Emp# Exp Hrs Emp # KIRKLAND, LARRY 36 286162 TRAVIS, TONY Craig 367758 UNDERWOOD, BILLY 159068 40 40 Don Dale Equipment HES Unit # Distance-1 way Distance-1 way HES Unit # HES Unit # Distance-1 way HES Unit # Distance-1 way 10825967 135 mile 11133701 135 mile 11288856 135 mile 11715801 135 mile 11748311 135 mile Job Hours Date On Location Operating Date On Location Operating Date **On Location** Operating Hours Hours Hours Hours Hours Hours 8-21-11 21 8-22-11 0 19 1 TOTAL Total is the sum of each column separately Job Job Times Formation Name Date Time Zone Time Formation Depth (MD) Top Bottom Called Out 21 - Aug - 2011 02:00 CST Form Type BHST On Location 21 - Aug - 2011 03:00 CST Job depth MØ 500. ft Job Depth TVD 500. ft Job Started 22 - Aug - 2011 00:00 CST Water Depth Wk Ht Above Floor Job Completed 22 - Aug - 2011 00:00 CST Perforation Depth (MD) From То Departed Loc 22 - Aug - 2011 00:00 CST Well Data Max Description New Size ID Weight Thread Grade Top MD Bottom Top Bottom Used pressure lbm/ft in in MD TVD ft TVD psig ft ft ft Surface Open 12.25 80. 500. Hole Preset Conductor Uaknow 20. 19,124 94. 80. n Surface Casing Unknow 9.625 8.921 36. 500. n Sales/Rental/3rd Party (HES) Description Qty Qty uom Depth Supplier CLR.FLT, TROPHY SEAL, 9-5/8 8RD EA 1 CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED 3 EA BASKET - CEMENT - 9-5/8 CSG X 12-1/4 2 EA SHOE, CSG, TIGER TOOTH, 9-5/8 8RD EA 1 **Tools and Accessories** Туре Qty Size Make Depth Type Size Qty Make Depth Type Size Qty Make Guide Shoe Packer Top Plug Float Shoe Bridge Plug **Bottom Plug** Float Collar Retainer SSR plug set Insert Float Plug Container Stage Tool Centralizers

**Miscellaneous Materials** 

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## **Cementing Job Summary**

Fluid # 1 H		Conc Conc Fluid EXTENDACEM (TM) CALCIUM CHLORID	Surfactar Infibitor Name SYSTEM (4:	Flu	id Data Qty	Conc Conc Qty uom		Type I Type Yield ft3/sk	Mix Fluid	Qty Size Rate bbl/min	Cond Qty Total	
Sta Fluid # 1 H	ge/Plug #: 1 Stage Type HALLIBURTON GHT TANDARD 3 %	Fluid EXTENDACEM (TM)	Name		Qty	Qty	Mixing	Yield	Mix Fluid	Rate	Total	Mix
Fluid # 1 H	Stage Type HALLIBURTON IGHT TANDARD 3 %	EXTENDACEM (TM)	$\Box$		Qty	•				1		Mix
Fluid # 1 H	Stage Type HALLIBURTON IGHT TANDARD 3 %	EXTENDACEM (TM)	$\Box$	52981)		•				1		Mix
# 1 H LI	HALLIBURTON IGHT TANDARD 3 %	EXTENDACEM (TM)	$\Box$	52981)		•				1		Mix
LI	GHT TANDARD 3 %		SYSTEM (4	52981)	· · · · · · · · · · · · · · · · · · ·		Ibm/gal	100.01	Quist	nimudu	Fiuld G	ial/s
		CALCIUM CHLORID			170.0	sacks	12.4	2.05	11.36		11.3	6
	0.25 lbm		E, PELLET,	0 LB (10	01509387	)				L1		
		POLY-E-FLAKE (101	216940) /		· · · · · · · · · · · · · · · · · · ·			•			<u>_</u>	
1	1.361 Gal	FRESH WATER									,	
2 5	STANDARD	HALCEM (TM) SYST			100.0	sacks	15.6	1.2	5.32		5.3	2
•	2 %	CALCIUM CHLORID	E, PELLET, 5	50 LB (10	01509387	)	,,I			LJ		
C	).125 lbm	POLY-E-FLAKE (101	216940)		·							
	5.319 Gal	FRESH WATER		~				<u> </u>	· · · · · ·			
	STANDARD OP OUT	CMT - STANDARD ( (100003684)		$\sim$		sacks	15.6	1.2	5.32		5.32	2
	94 lbm	CMT STANDARD -	CLASS A RE	G OR T	YPE I, BL	LK (100	003684)	*** <u>******</u>	daa	, I		-
	2 %	CALCIUM CHLORID	E, PELLET, 5	0 LB (10	01509387	)						
	).125 lbm	POLY-E-FLAKE (101	216940)	/					·· ·· ··			
5	5.319 Gal	FRESH WATER	/ ·									
Calc	ulated Values	Préssú	res				Vo	lumes		<b>a</b>		1997 -
isplace		Shut In: Instant		Lost Re	turns		Cement Sl		62/21	Pad		
op Of C		5 Min		Cement	Returns	30	Actual Dis	placeme	ent 36	Treatm	ent	
rac Gra	dient /	15 Min		Spacers	5	20	Load and E	Breakdo	wn	Total J		39
				R	ates	8						
Circulat		Mixing	<u> </u>		Displac	ement	4		Avg. Jo	b	4	
			ason Shoe						the second second			
rac Rin	ng # 1 @	ID Frac ring # ;	2 @ IE	<u>&gt;</u>	Frac Ring	)#3@	ID	F	Frac Ring #	#4@	ID	
The	Information	Stated Herein Is	Correct	Custom	er Represe	ntative S	ignature					

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## **Cementing Job Log**

	The Ro	ad to E	xcellend	e Starts	with Saf	ety		
	Ship To #: 2872			uote #:			Sales	Order #: 8404813
Customer: CHESAPEAKE OPE	RATING INC E	USINES	SS C	ustome	r Rep: Le	e, King		
Well Name: Schmidt 3-34-4	11	Well #:	18	~		API	/UWI #:	· · · · · · · · · · · · · · · · · · ·
	(SAP): CALDWE			arish: Si	Imner			Kansas
Legal Description: Section 3 T					)		10.000	
Lat: N 0 deg. OR N 0 deg. 0 mi		inge 444			deg. OF		0 min 0	
						E U deg.	U Min. U	SECS.
Contractor: Trinidad			Name/N	um: 205		1	<u>.</u>	
Job Purpose: Cement Surface		<i></i>				Ticket	Amount:	
Well Type: Development Well				rface Ca				
Sales Person: CRAWFORD, RO	OBERT Sive	Supervis	or: UNI	DERWO	DD, BILLY	/ MBU IE	) Emp #:	159068
	· 비행관 이 제공		Rate	Val	ume	Pres	sure	
Activity Description	Date/Time	Cht	bb!/	Read and the second second	1. The second	p	sig	Comments
			min	۵	bl			
		#		Stage	Total	Tubing	Casing	
Call Out	08/21/2011		$\checkmark$	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	e e Gradani († 1777) 1. 1777 († 1777)		<u></u>	MOVING
(~	00:01		-					OVER/JOURNEY
			,					MANAGEMENT/BULK
	$\times$ / $\sim$	+ 1						BURNS FLAT
Depart from Service Center or	08/21/2011				<u> </u>			
Other Site	00:10							
Arrive at Location from Other	08/21/2011		• • • • • • •					ASSESS
Job or Site	03:00							LOCATION/TEST
	03.00							
$( \frown )$								WATER/GET WITH
	00/04/0044				<u> </u>			
Standby Rig	08/21/2011							RIGGING UP
Anima and a start of the	03:30							TOPDRIVE
Arrive at Location from Other	08/21/2011							BULK TRUCK ON
Job or Site	07:30							LOCATION
Standby Rig	08/21/2011							WORKING ON
	12:00							TOPDRIVE
Standby Rig	08/21/2011							WORKING ON
$ \rightarrow $	18:00							TOPDRIVE
Standby Rig	08/22/2011							WORKING ON
//	00:00							TOPDRIVE
Standby Rig	08/22/2011							DRILL BIT AT
/ \\	02:00							CONDUCTOR/WORKI
< II	J .							G ON FLOWLINE
Standby Rig	08/22/2011							SPUDDING IN
	04:00							
Standby Rig	08/22/2011							TD/RUN VES WIRE
$\sim \sim 1$	10:00		1					TOOL
Standby Rig	08/22/2011	<u>†</u> †						PULL DRILL PIPE/LAY
	11:30							DOWN 8" COLLARS
Safety Meeting - Pre Rig-Up	08/22/2011	┼────┤						USE SPOOTER/EYE
	13:00		1					ON PATH
Rig-Up Equipment	08/22/2011	<u>├</u> ───						
	13:05							
Rig-Up Completed	08/22/2011	├───-						OTANDOV DIOONIC
- g op oompleted	13:30							STANDBY RIGGING UI
	10.00						1	TO RUN CASING

Ship To # :2872668

XXX, XXX 00, 0000 00:00:00

Quote # :

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# **Cementing Job Log**

Activity Description	Date/Time	Cht	Rate bbl/ min	and the second sec	ume bl	2, 983-1, 1, 1, 1, 1, 2, 2, 2, 2	sure sig	Comments
		#		Stage	Total	Tubing	Casing	
Rig-Up Equipment	08/22/2011 16:00							HOOK UP HEAD/CIRCULATE WITH RIG
Safety Meeting - Pre Job	08/22/2011 17/30			$\sim$				JOB AND SAFETY PROCEDURES
Test Lines	08/22/2011 17:40	17					2000. 0	GOOD TEST
Pump Water	08/22/2011		4.5	20			100.0	FRESH WATER
Pump Lead Cement	08/22/2011 17:58		5	62			150.0	12.4#/GAL HLC
Pump Tail Cement	08/22/2011		4	21			150.0	15.6#/GAL STANDARD
Drop Plug	08/22/2011 18:17		$\checkmark$					
Pump Displacement	08/22/2011		4	36			125.0	FRESH WATER
Pump Displacement	08/22/2011		3				170.0	SLOW RATE
Bump Plug	08/22/2011 18:33						700.0	30BBLS CEMENT RETURNS
Check Floats	08/22/2011 18:35							HOLDING
End Job	08/22/2011 18:40							<b>RIGDOWN MEETING</b>
Rig-Down Equipment	08/22/2011 18:45							
Rig-Down Completed	08/22/2011 19:05		1					JOURNEY MANAGEMENT
Depart Location for Service Center or Other Site	08/22/2011 19:15							

Sold To #: 344659 SUMMIT Version: 7.20.130

Ship To # :2872668

Quote # :

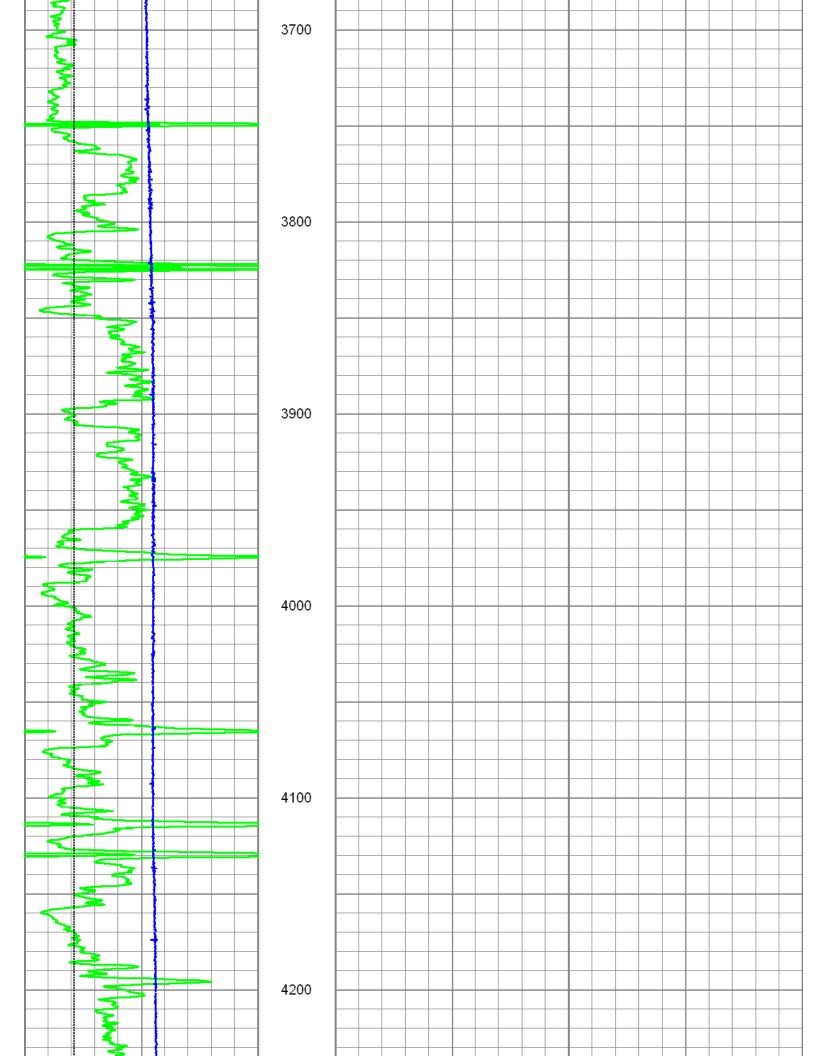
XXX, XXX 00, 0000 00:00:00

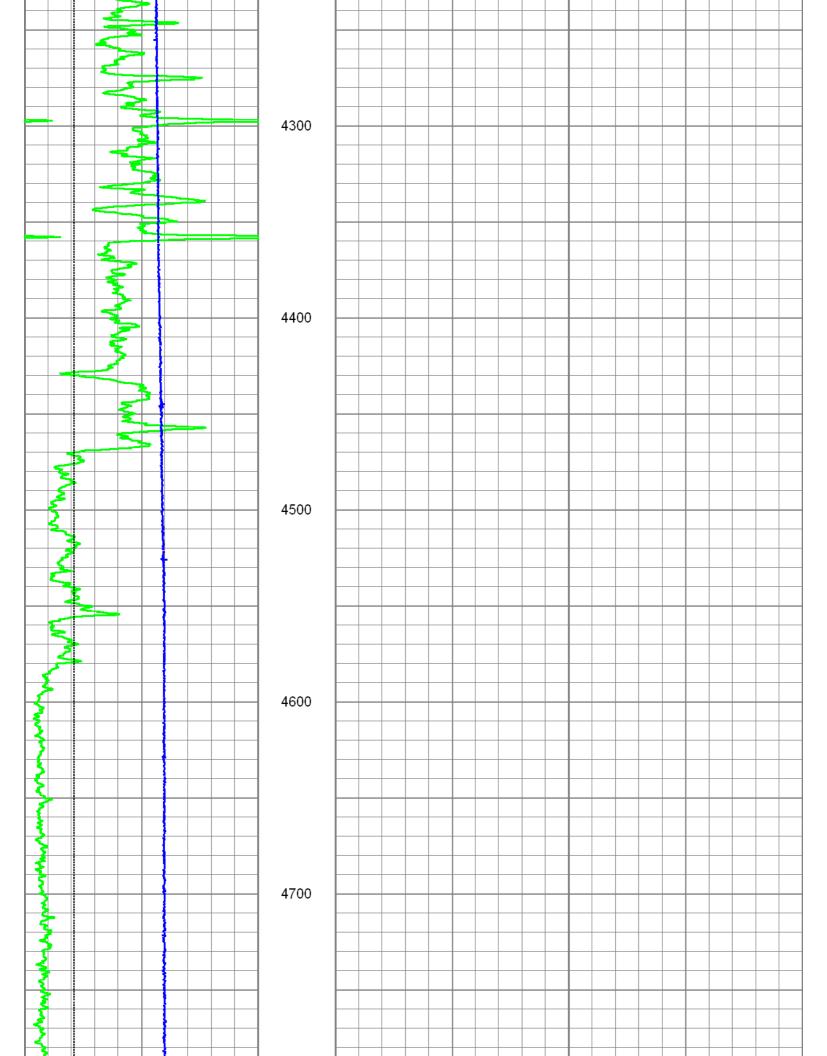
Recorded By Witnessed By	Location	Equipment Number	Maximum Recorded Temperature	Time Logger on Bottom	Time Circulation Stopped	Rm @ BHT	Source of Rmf / Rmc	Rmc @ Meas. Temp	@ Meas.	Rm @ Meas. Temp	Source of Sample	pH / Fluid Loss	Density / Viscosity	Type Fluid in Hole	Bit Size	Casing Logger	Casing Driller	Top Log Interval	Bottom Logged Interval	Depth Logger	Depth Driller	Run Number	Date		Company Well Field County State	SC SU	HMID.	T 3-34 R PRC	E OPE 1-4 1H )JECT			ic. Ppi lime		<b>O</b> ThruBit
			lemperature	tom	pped														IVa						Permanent Datum Log Measured From Drilling Measured From	S	SURF	Location:	County	Field	Well	Company		ruBit
D. THOMAS		8001		14:30 13SEPT2011	13:00 13SEPT2011	0.56 OHMS@138 DEGF	CALCULATED	1.25 OHMS@75 DEGF	.75 OHMS@75 DEGF	1.0 OHMS@75 DEGF	MUD PIT	9.0 / NA	8.4 / 27	FRESH WATER	6.125"	7" @ 4965'	7" @ 4962'	3540'	8605'	8616'	8670'	ONE	13 SEPTEMBER 2011		G.L. Elevation 1224' K.I D.F. 15' ABOVE PERM DATUM D.I om D.F. G.	SEC 3 TWP 34S RGE 4W Elevation	SURF LOC: N/2 NE NE 180' FNL & 660' FEL PORTAL BIT	API # : 15-191-22631 Other Services	SUMNER State KS	SUMNER PROJECT/MISSISSIPPI LIME	SCHMIDT 3-34-4 1H	CHESAPEAKE OPERATING, INC.		ARRAY INDUCTION GAMMA RAY MEMORY LOG
A coi	All i	inte ctne	rpr ess	of	ion any	s ai rint xpe	erp ens	reta es i	atio incu	on, a urre	and ed o	lwe ors	e sl sust	nall aine	not ed l	t,e: by:	xce any	ept /on	in t e r	the esu	ca: ultin ral	se ng f ter	of of from from ms	gr n a	er measu ross or will	emer ful ne	nts an egliger	d we nce or ade by	n our p / any o	oart, be	e liabl officei	e or res rs, agen	ponsib	e accuracy or le for any loss, mployees. Thes
	S			Т	0		ME S	A ES TF	LL TC RIP SE RIQ	S SN VG T EN GN				S A FR WI RE INI	AN IX ITH PF JL	D - 2 - 1 R R R R E . A I	PI 2.7 EV S R			S S S E P	ND C, SV T( AS	0\ A U VI VI SL SO			I MEMO DNS PE D FOR L, S. DI . BORE VOLUN JSED T GAMM	R C PO ECE HO IE, F	CUST ROS ENTF LE V FT3, CRE/	FON BITY RAL /OLI CAI ATE	IER ME ZER JME LCU	REG ASU , NC , FT LATI G DE	UES IREI D ST 3 ED F	ST MENT AND OR 4	'S DFF 1.50''	
													C	CR	E٧	N:	C								DAD #: 8. FRAN		M/K.	. RE	ED					
S	Sei	rvic	e -	Tic	ket	No	).		734	4									AF	211	١o.			1	15-191-2	2631				F	PGM	Ver	WAF	RIOR 7.0

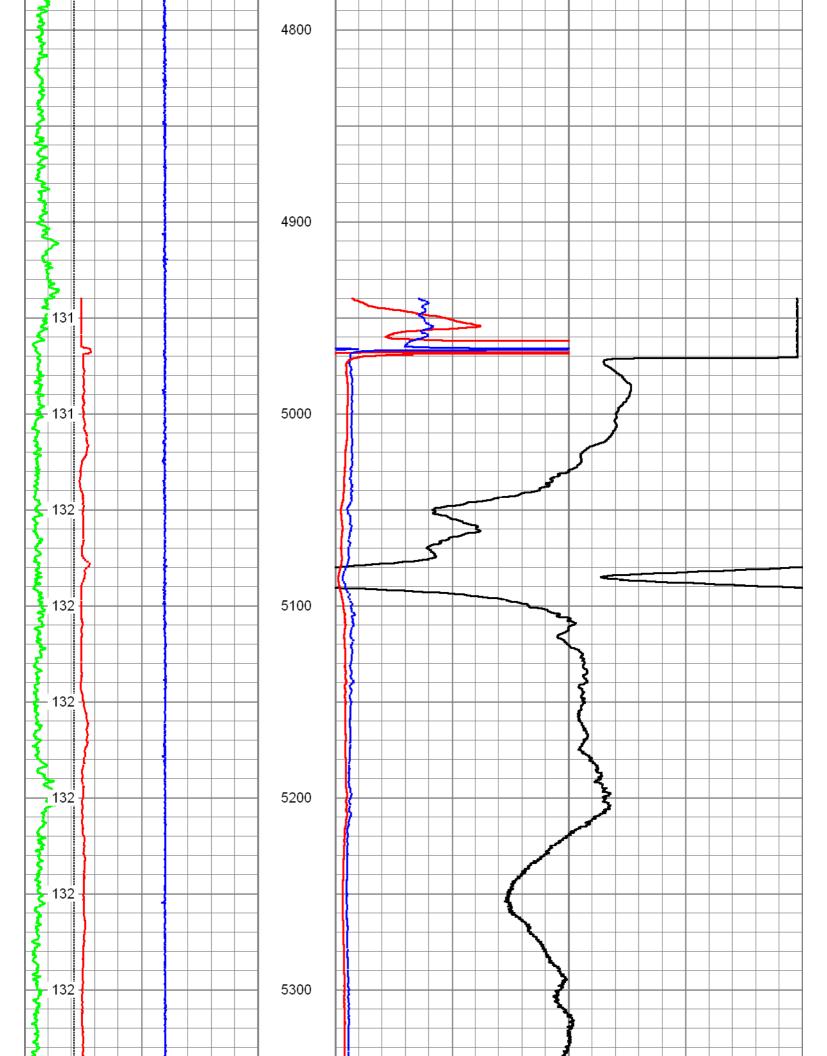
The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client												
EQUIPMENT DATA												
GAMMA RAY NEUTRON DENSITY INDUCTION												

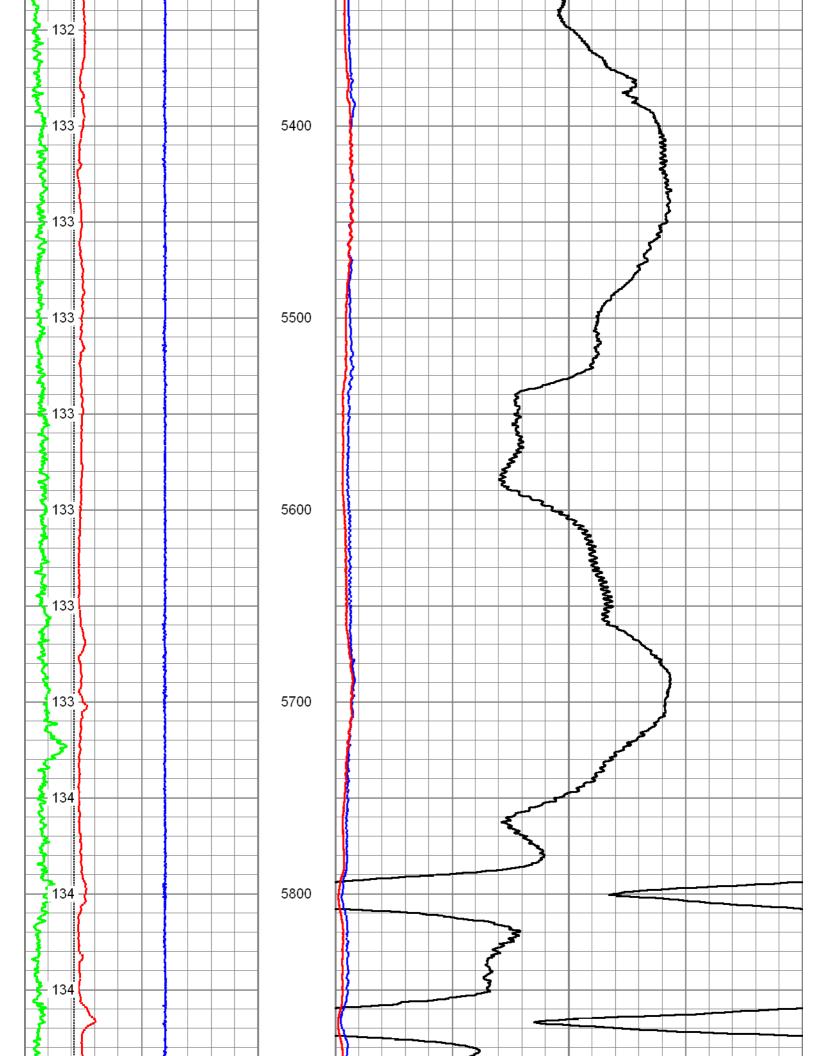
Run No.	ONE	Run No.		ONE		Run N	0.		C	NE	Run	No.	ONE
Serial No.	PS27T	Serial No.		PS23	١	Serial	No.		PS	643D	Seri	al No.	PS28R
Model No.	PS	Model No.		PS		Model	No.			PS	Mod	lel No.	PS
Diameter	2.125"	Diameter		2.125	"	Diame	eter		2.	125"	Diar	neter	2.125"
				LO	GGIN	G DAT	A						
				0	Senera	al Data							
Pass	De	epths	W	ell Head	Sp	beed		Lo	gging F	≀un Comn	nents	6	
No.	From	To	PI	ressure	Ft/	/Min							
ONE	8616'	3540'				30							
	GAMM	A RAY		NEUT	RON				DENS	ITY		INDU	CTION
Pass	Sc	ale		Sca	le				Sca	e		So	ale
No.	L	R		L		R		L		R		L	L
	0 API	150 API	:	30 %	-1	0 %	;	30 %	%	-10 %		0.2 OHM-M	2000 OHM-M
					DNAL	INFOR	MATIC	ЛС					
Maximum De	viation	94.4	deg.	@	50	031'	KOP	)		3525'			

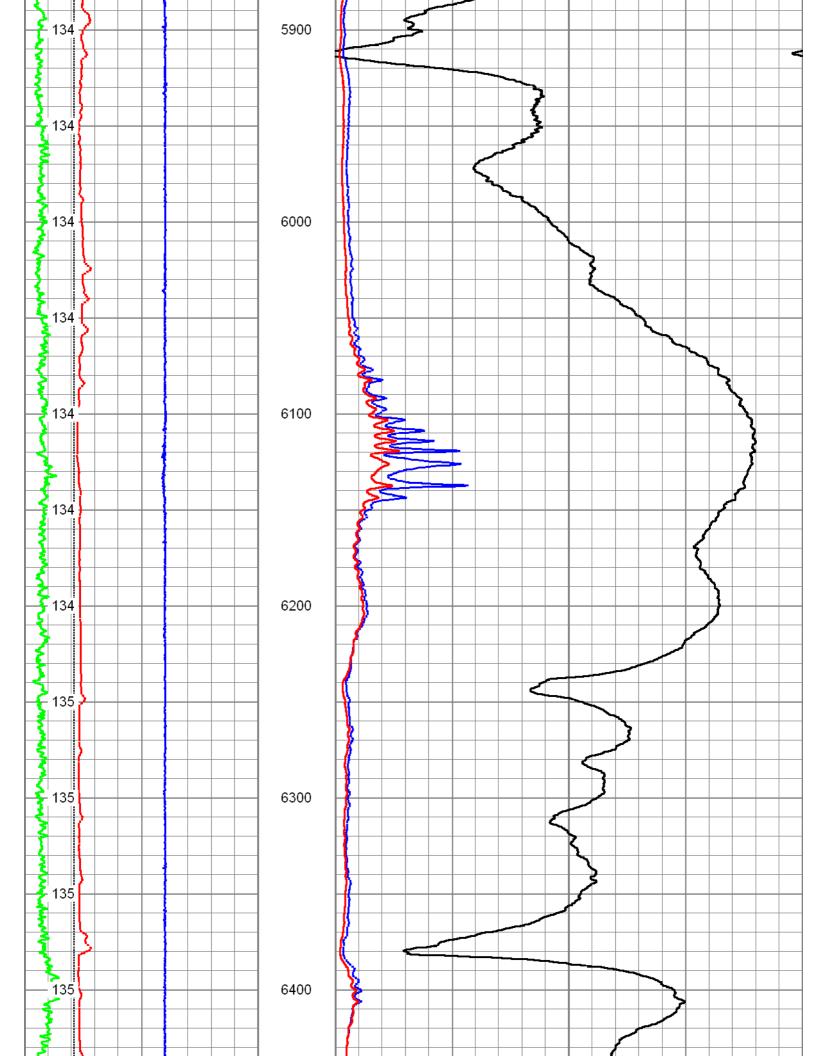
			M	All	NF	PA	SS	5			
Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:	schmidt_mem.db proc1/pass1.4 6_2r_chk Tue Sep 13 21:34:19 Depth in Feet scaled										
0 GR (GAPI)	150	50	20in 2ft I	Res (O	hm-m)	500					
4 DCAL (in)	14	50	90in 2ft l	Res (O	hm-m)	500					
-5 ACCY	5	1000			DEE		D (Ohr	n-m)			0
4 BOREID (in)	14	0	20in 2ft I	Res (O	hm-m)	50					
GRTEMP	I	0	90in 2ft l	Res (O	hm-m)	50					
(degF)											
3										 	
	3600										
				_							
	+ + + + - +										

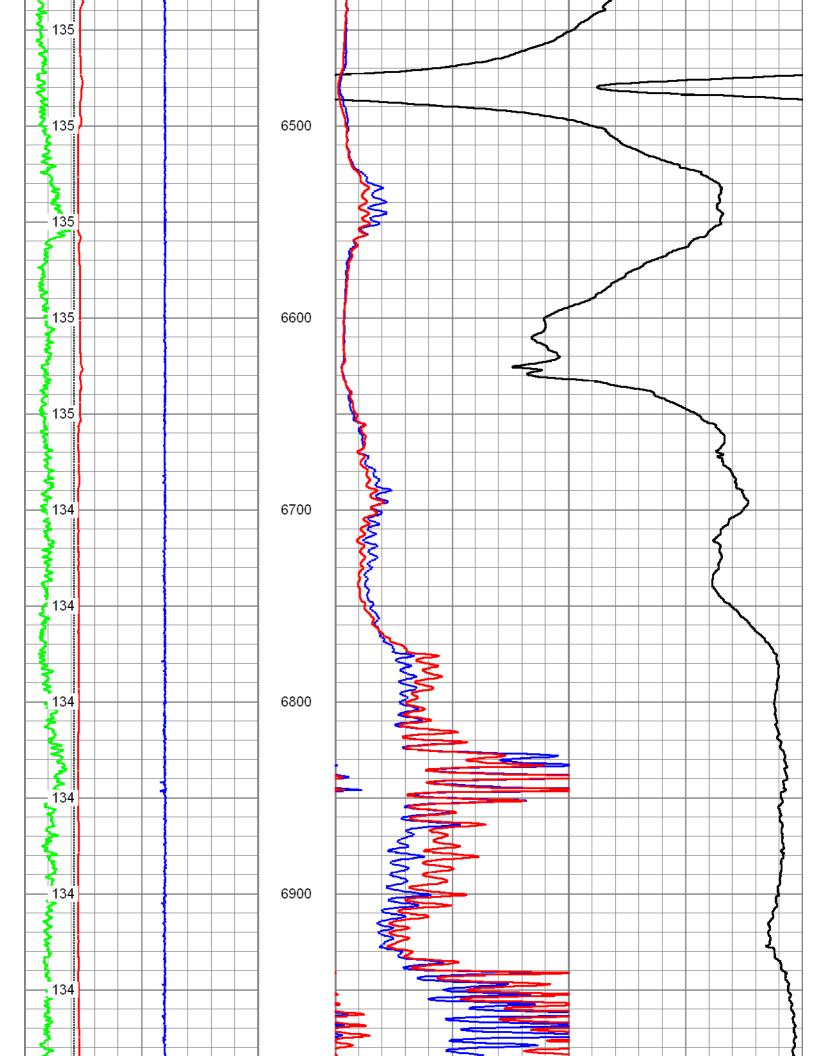


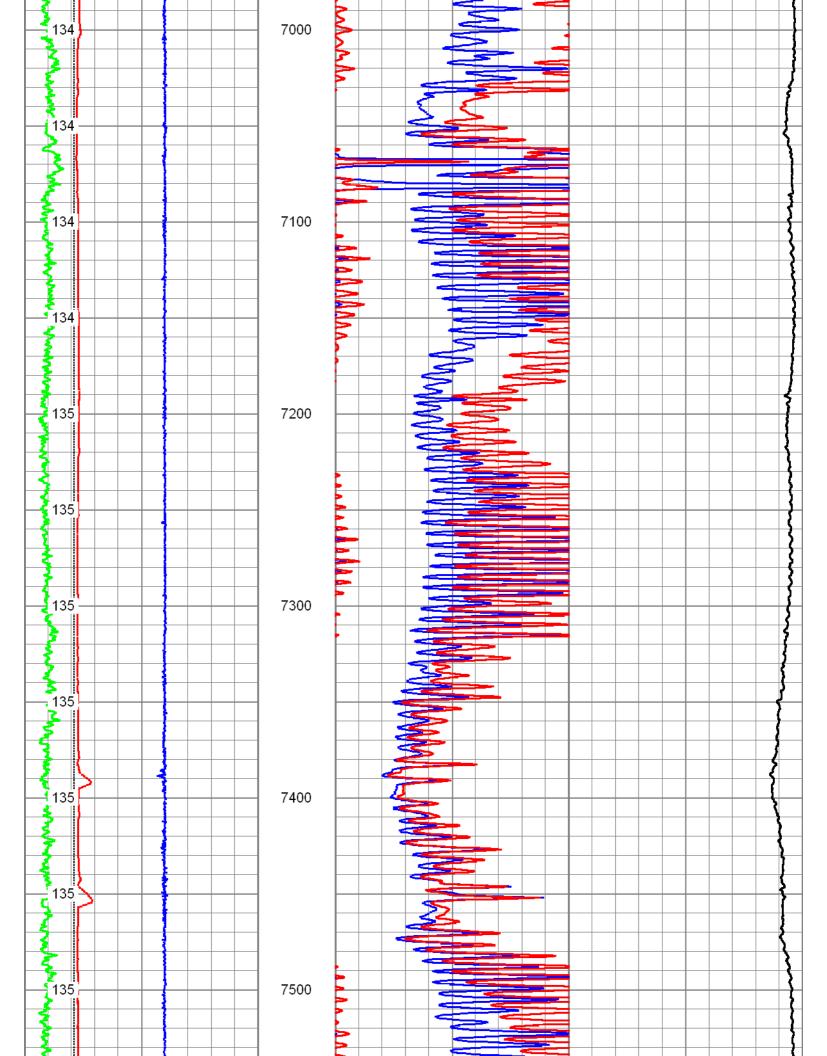


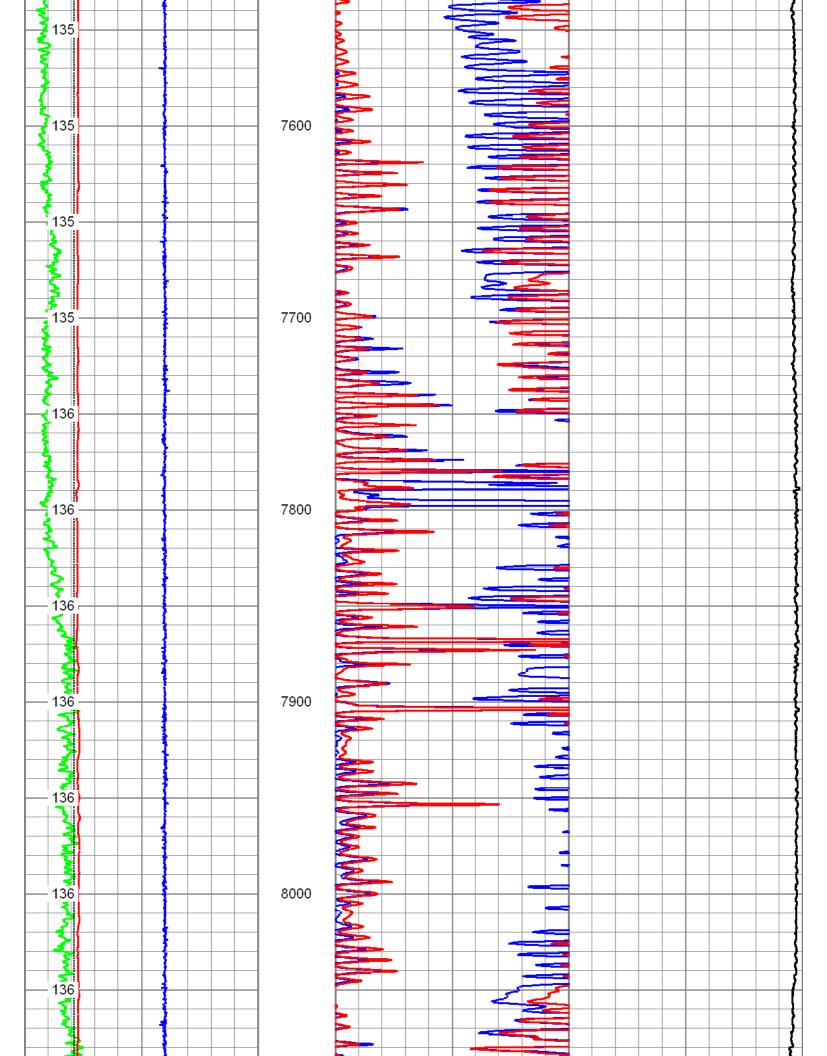


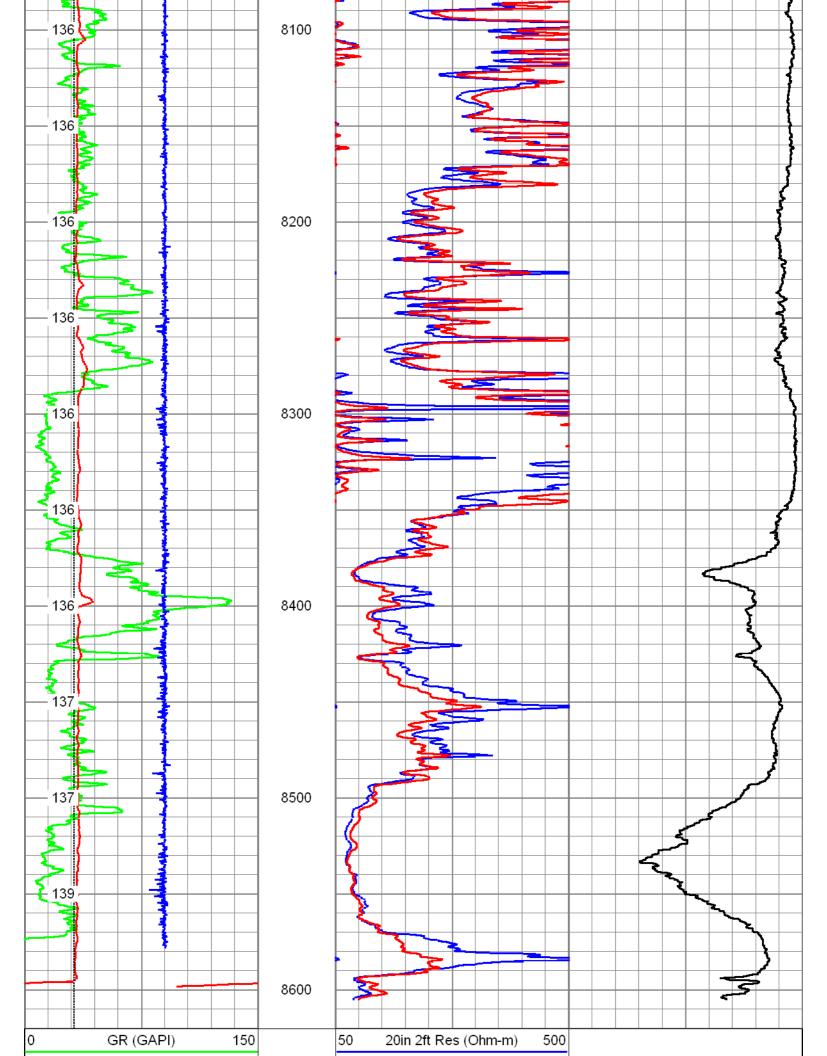








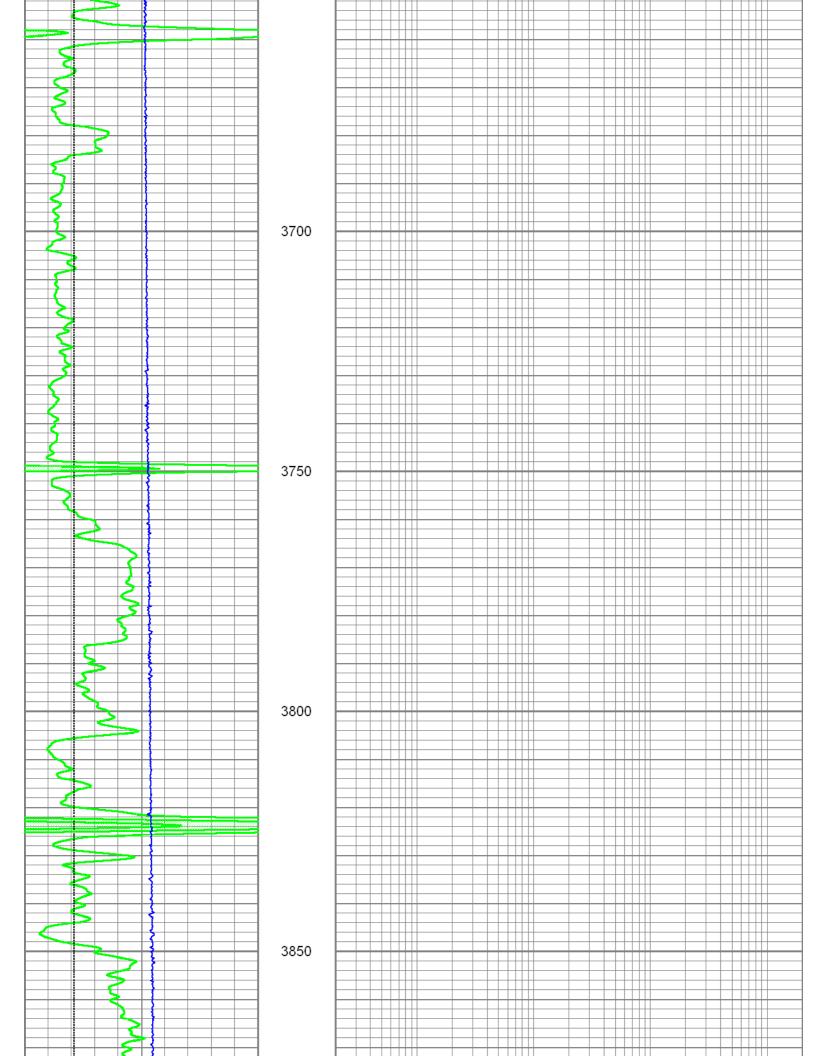


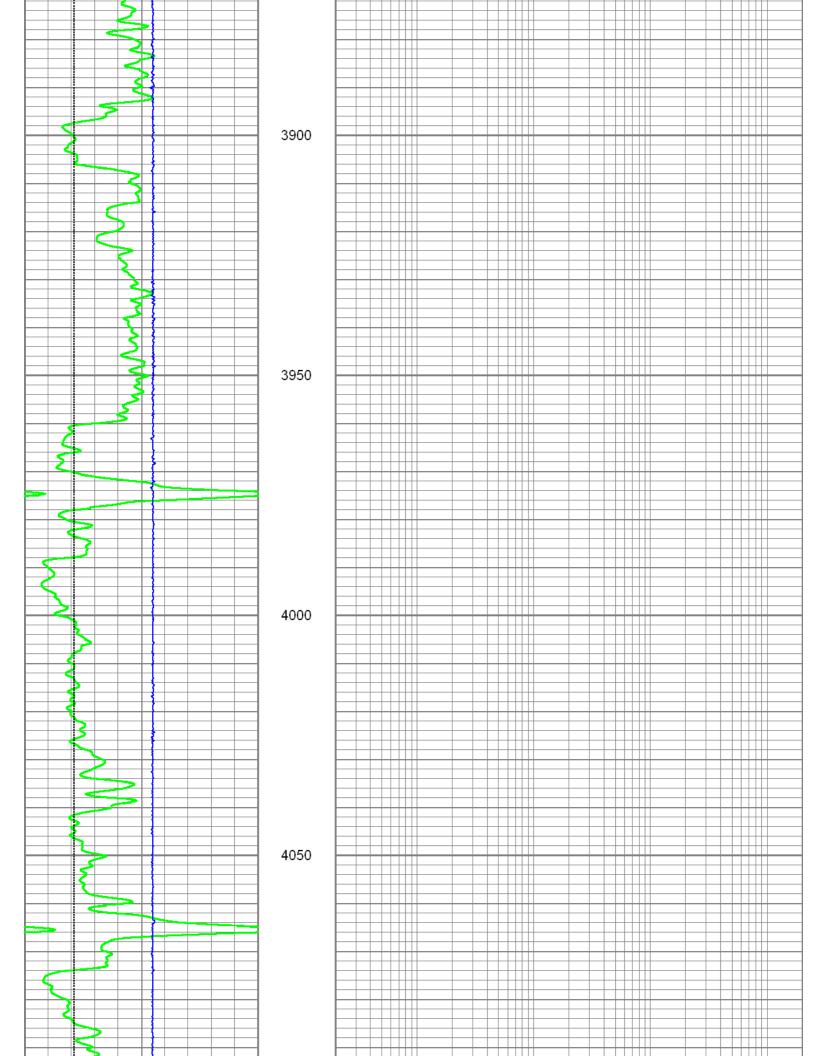


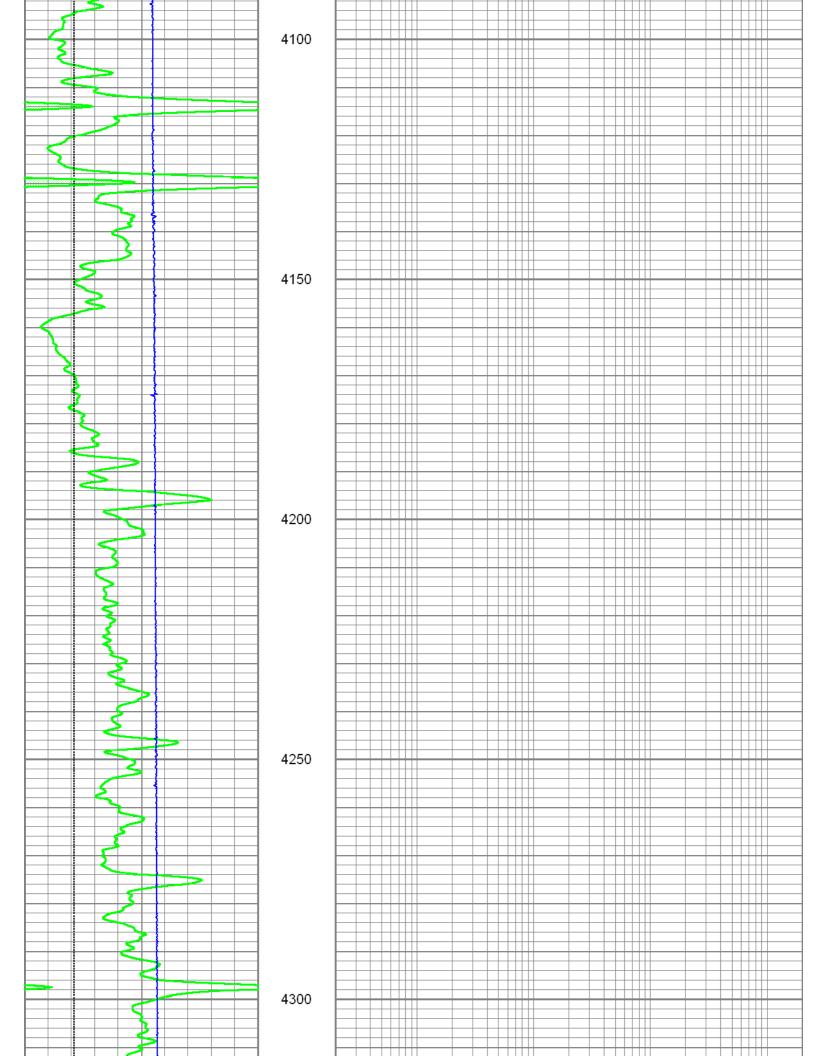
4	DCAL (in)	14
-5	ACCY	5
4	BOREID (in)	14
GRTEMP		
(degF)	_	

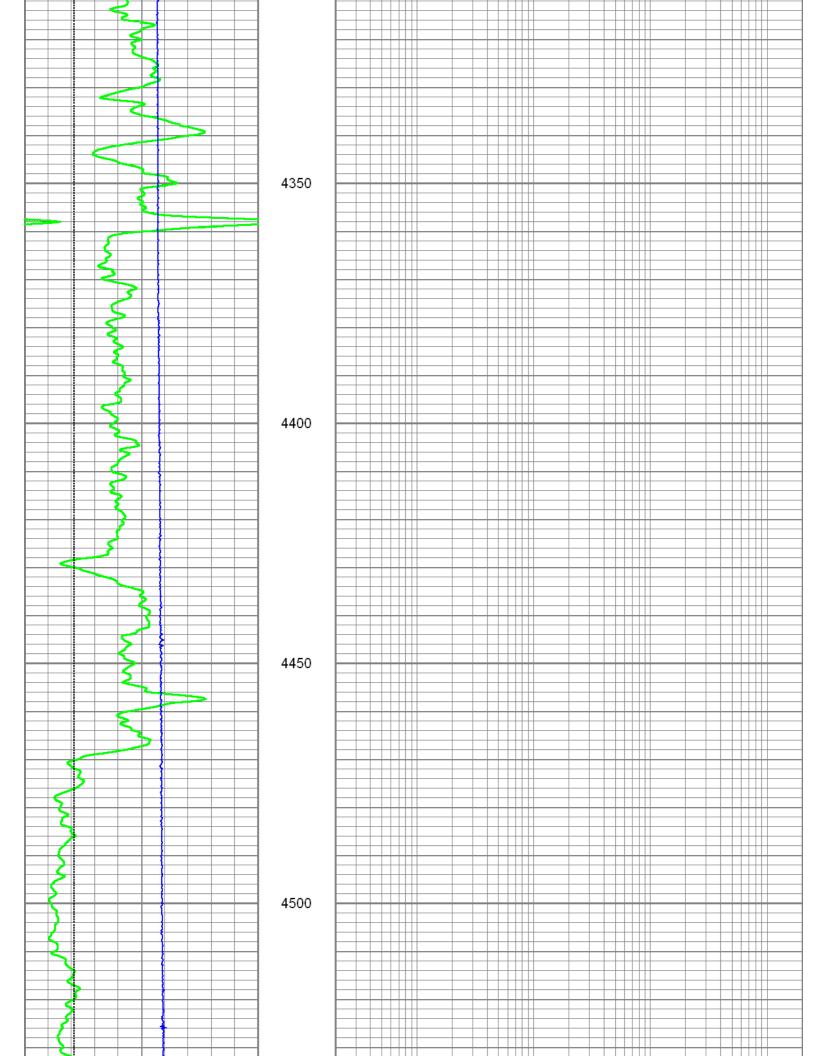
50	90in 2ft Res (Ohm-m)	500		
1000	DEE		ID (Ohm-m)	0
0	20in 2ft Res (Ohm-m)	50		
0	90in 2ft Res (Ohm-m)	50		

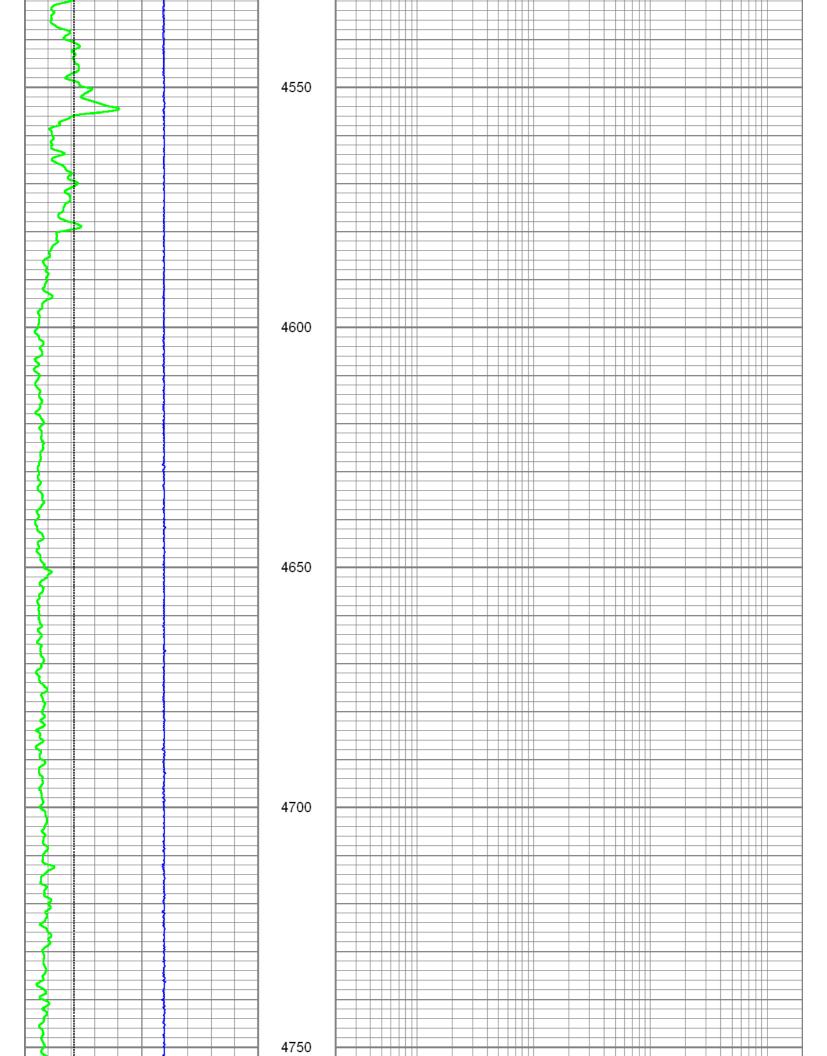
	UTIONS	Μ	AIN PA	SS	
Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:	schmidt_mem.db proc1/pass1.4 6_5r_chk Tue Sep 13 21:34:1 Depth in Feet scaled	9 2011 I 1:240			
0 GR (GAPI)	150	0.2	20inRadial	(Ohm-m)	2000
4 BOREID (in)	) 14	0.2	30inRadial	(Ohm-m)	2000
4 DCAL (in)	14	0.2	60inRadial	(Ohm-m)	2000
-5 ACCY	5	0.2	90inRadial	(Ohm-m)	2000
	, i	GRTEMP			
		(degF)			
	3550 3550 3600 ACCY				
	3650	)			

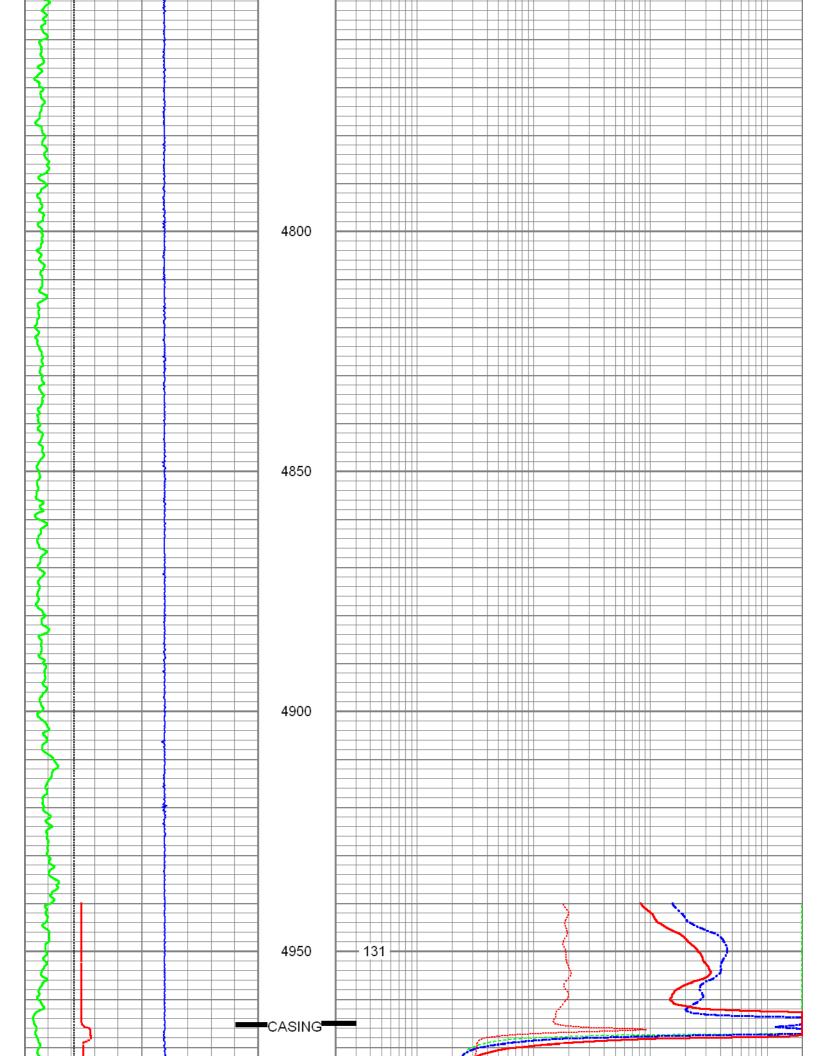


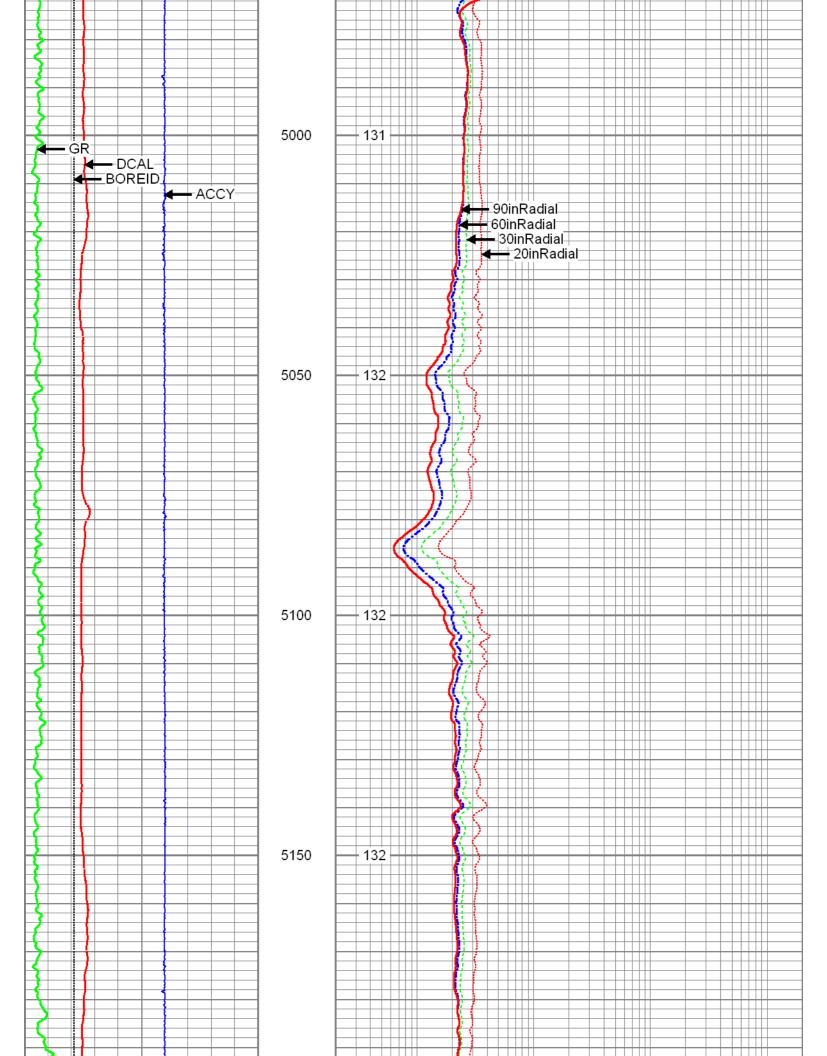


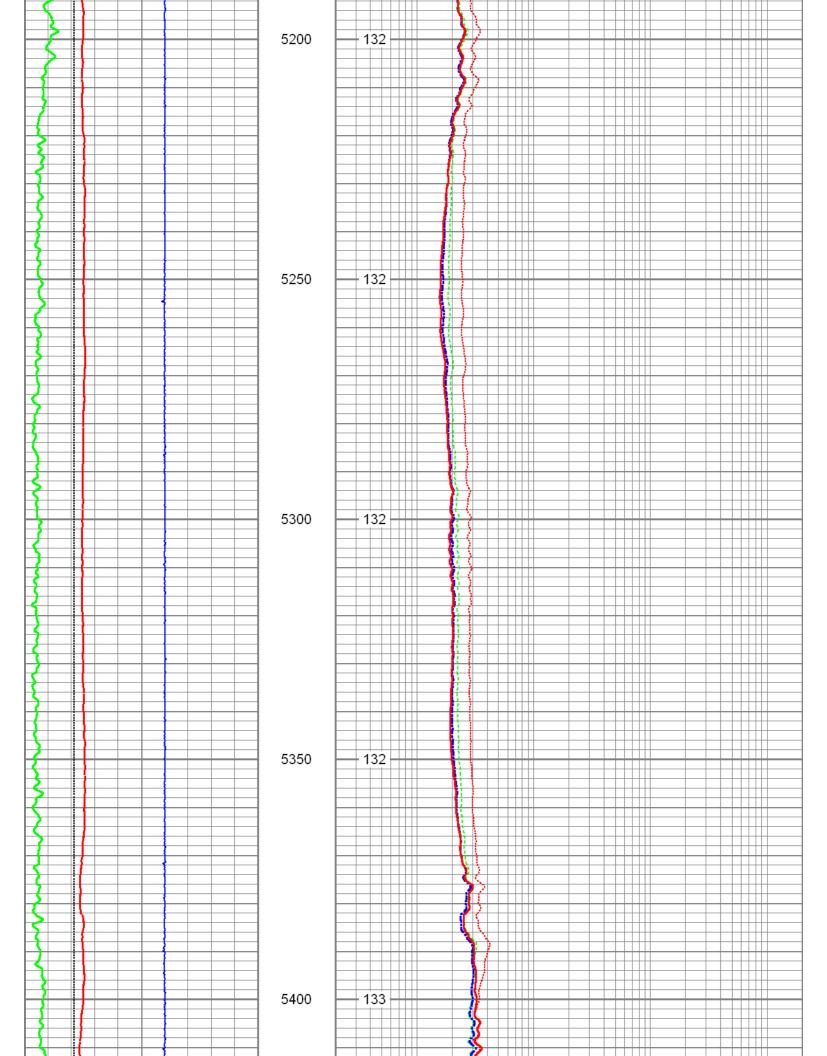


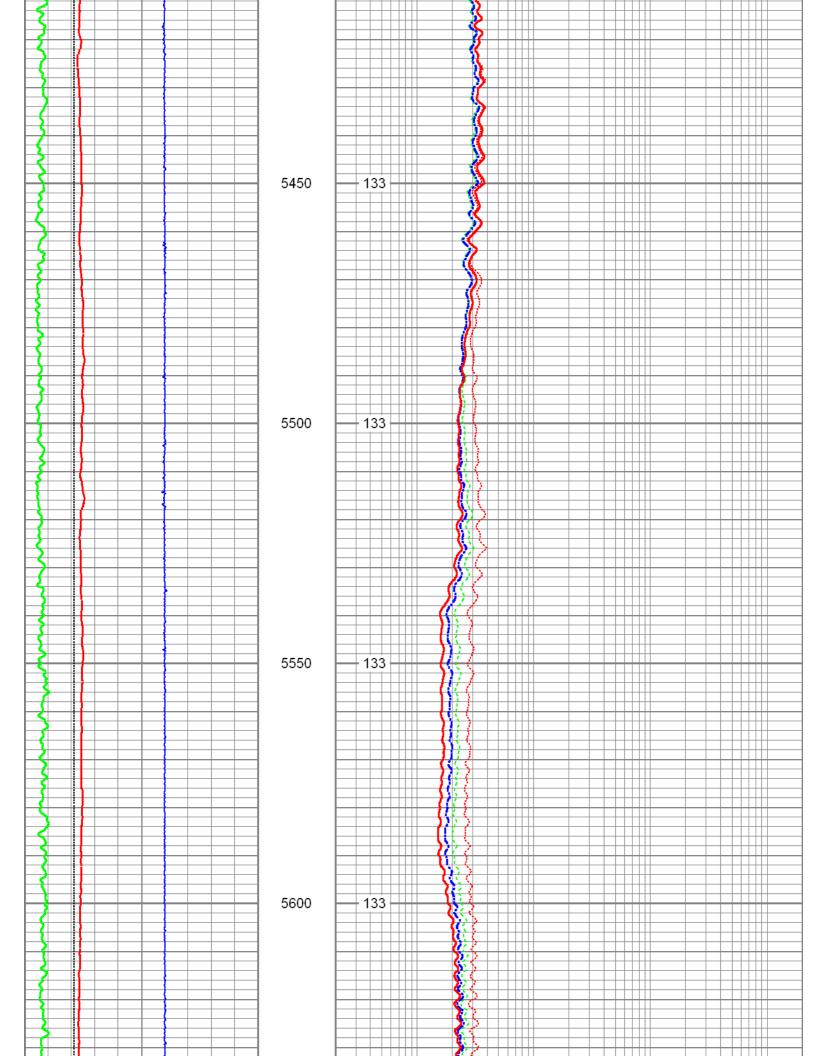


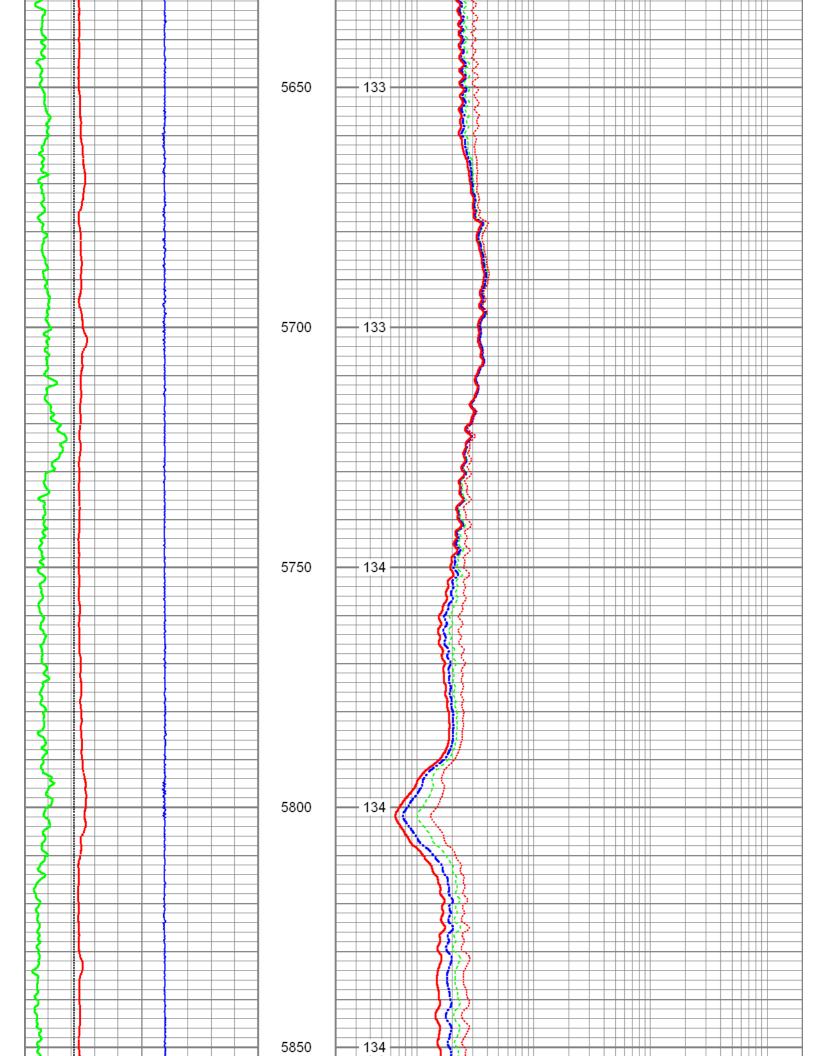


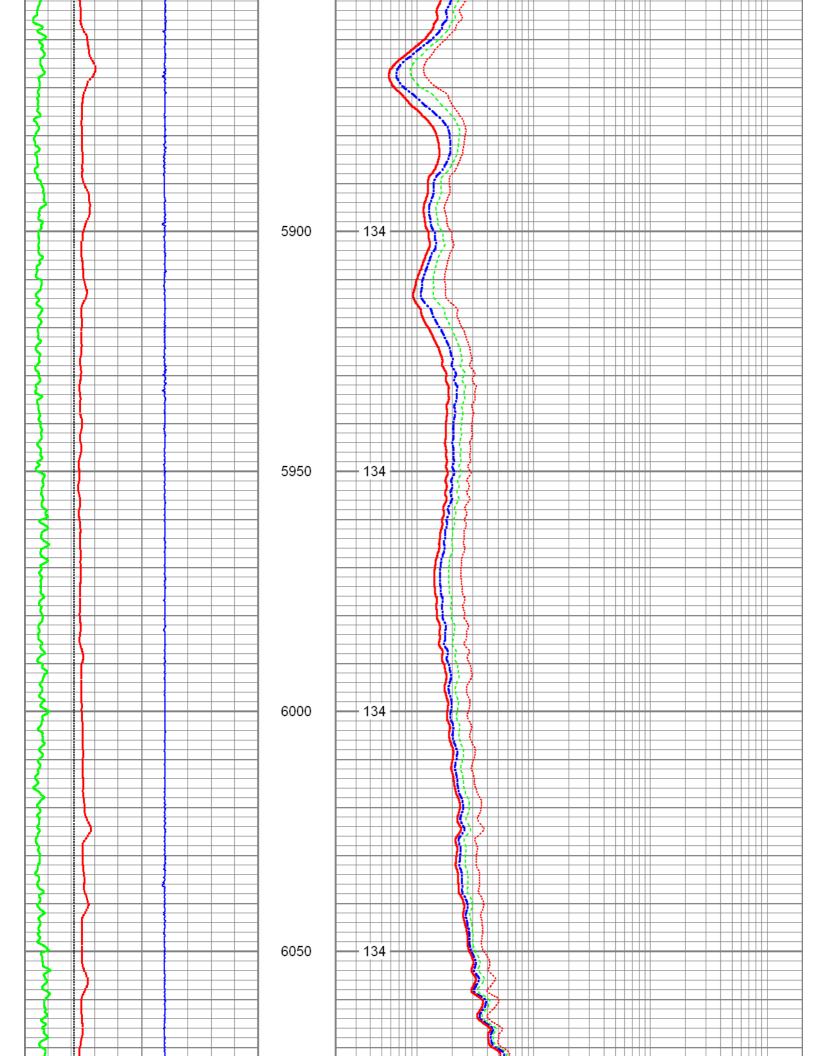


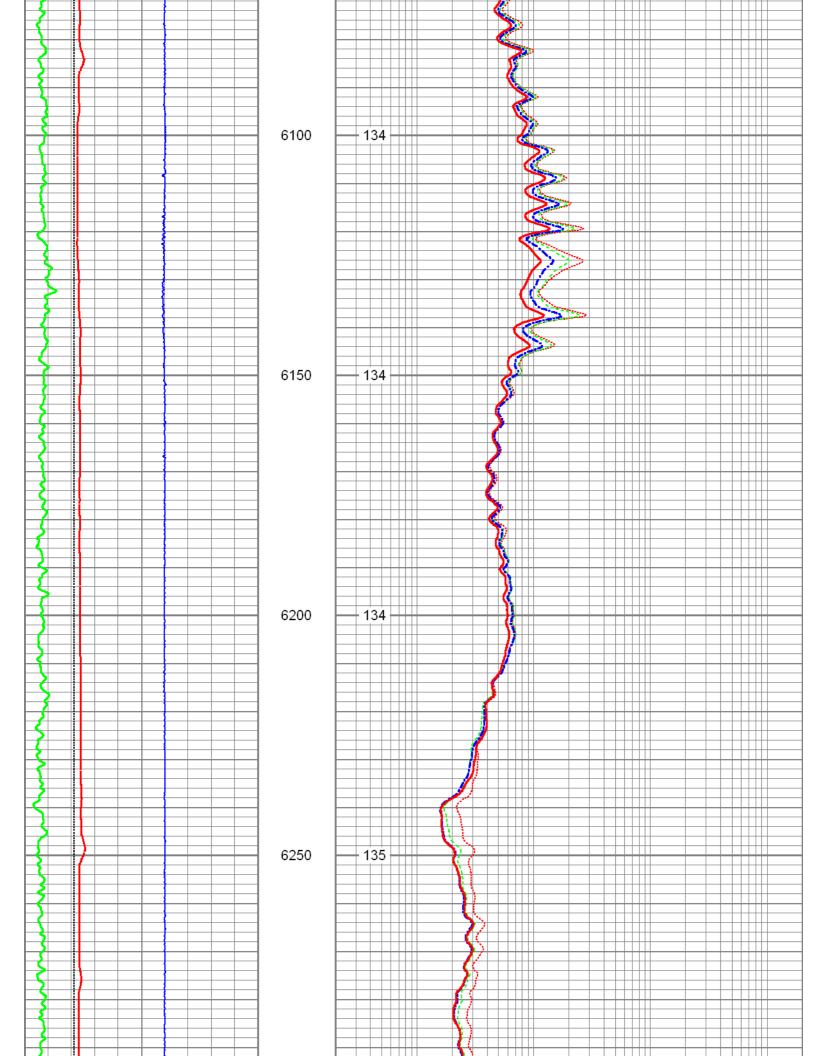


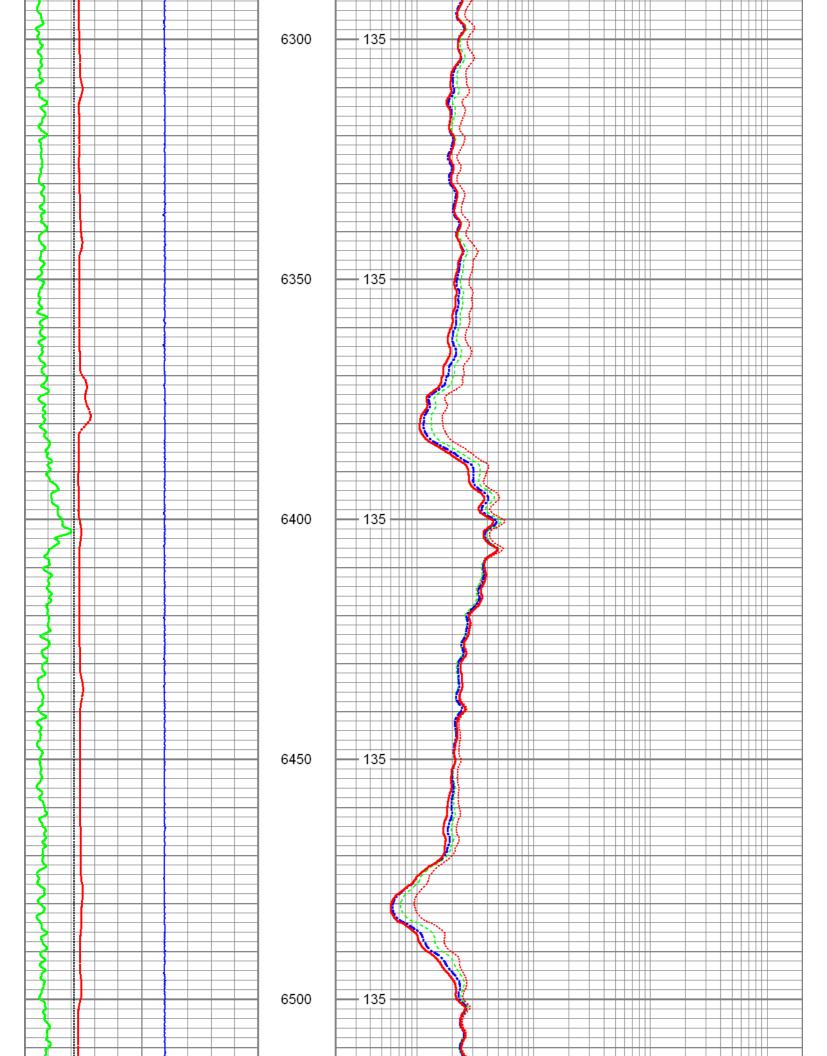


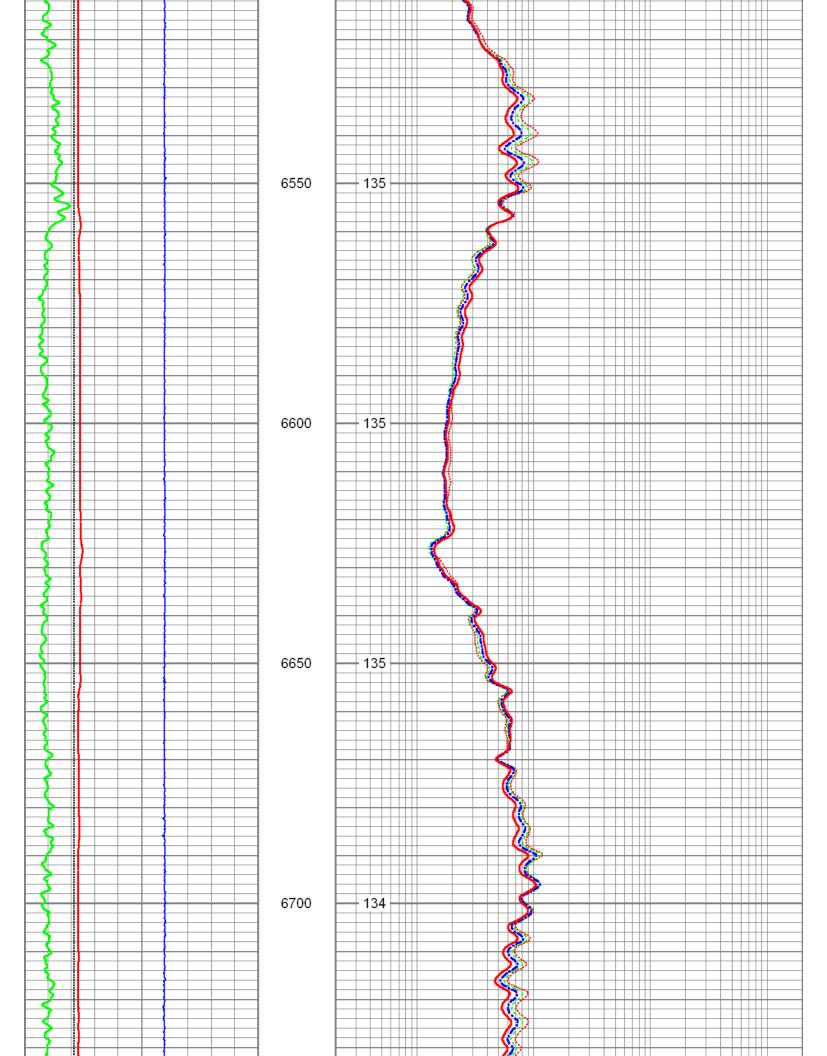


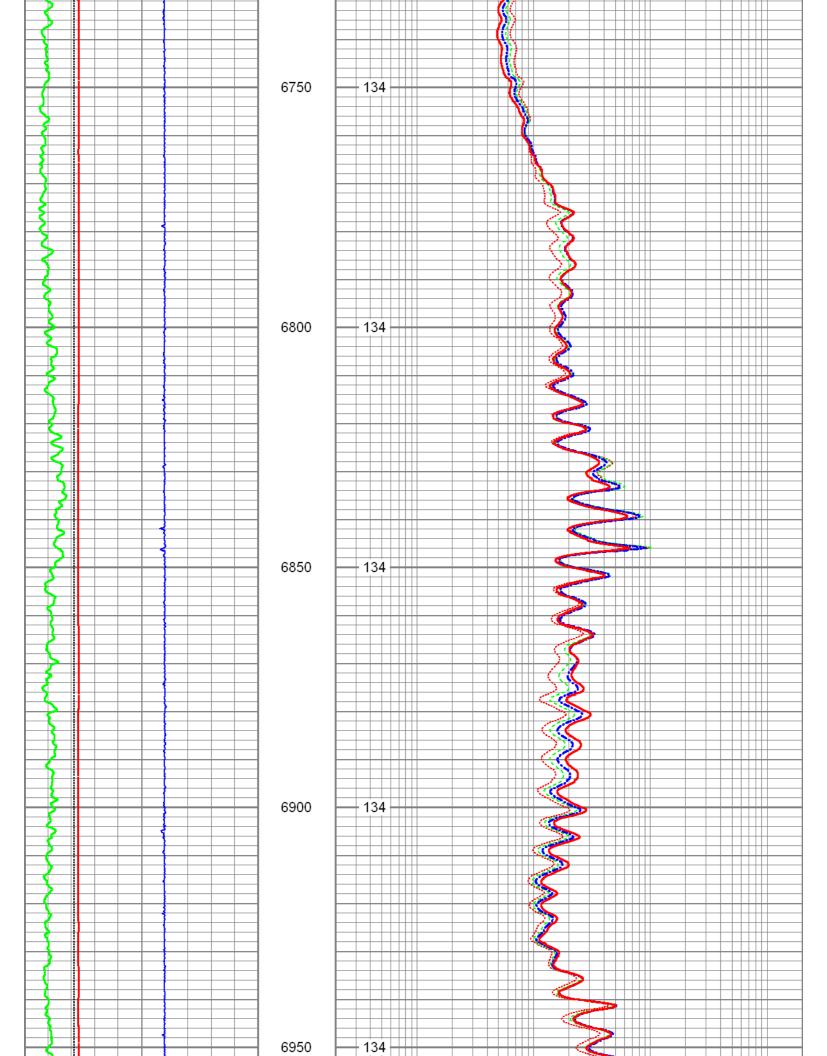


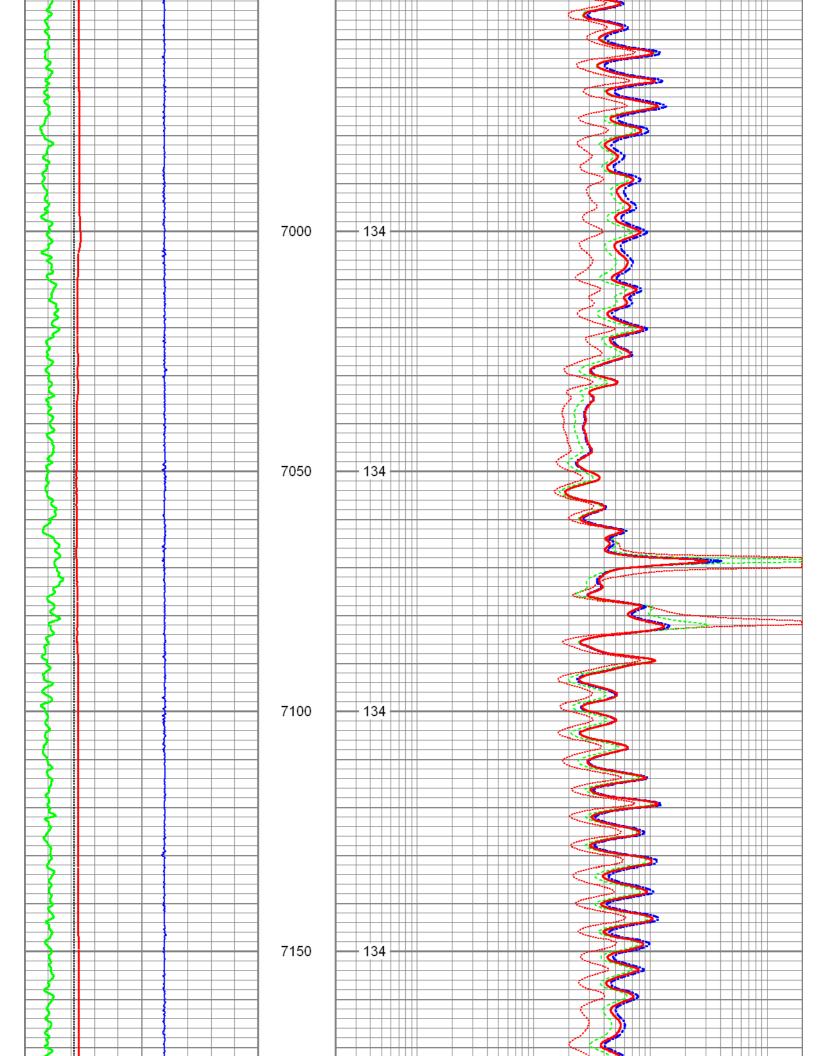


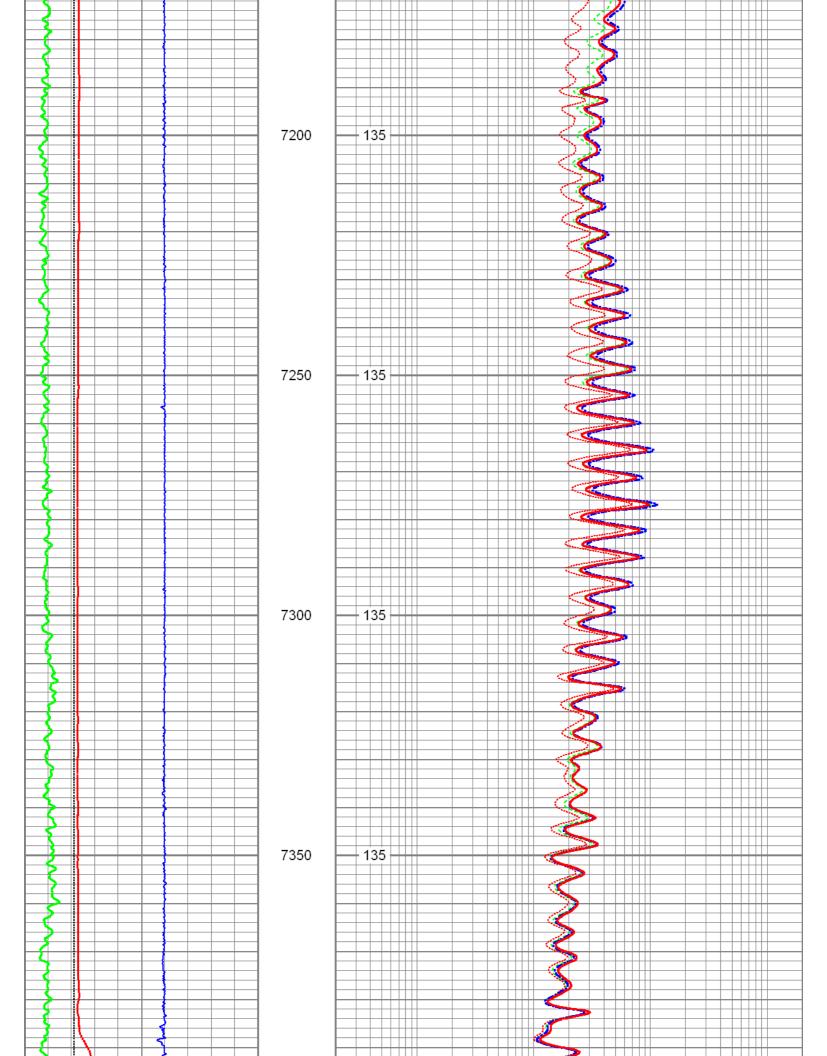


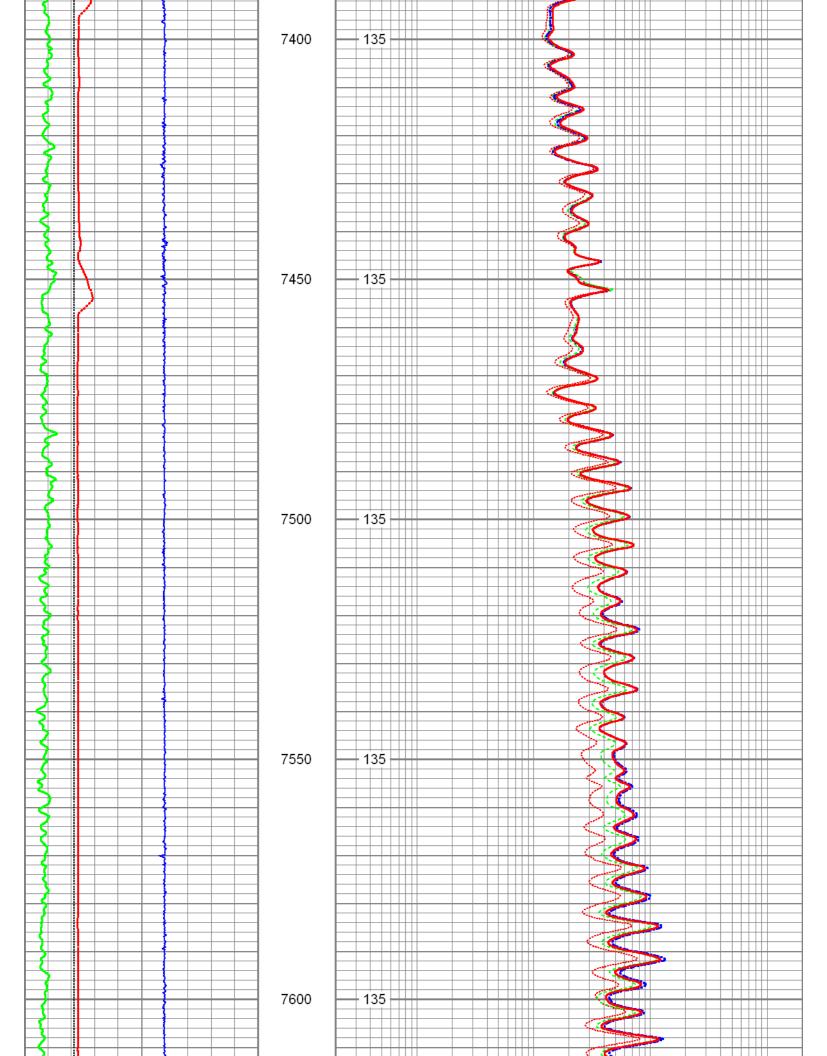


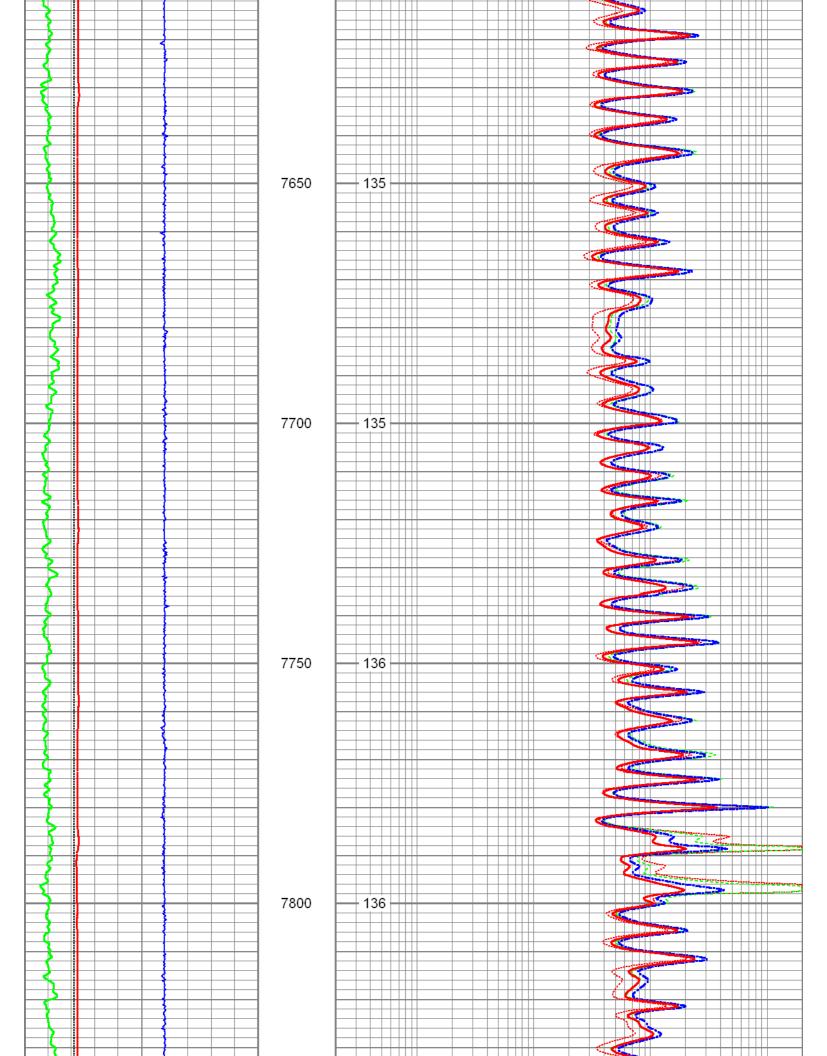


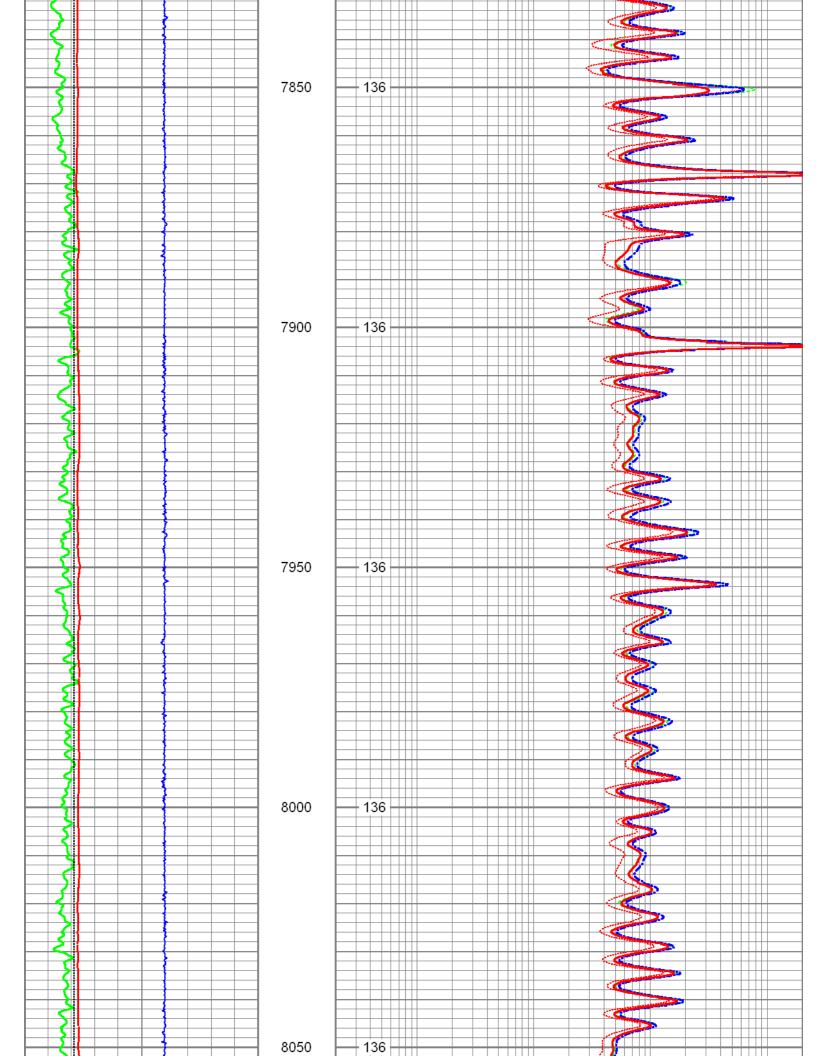


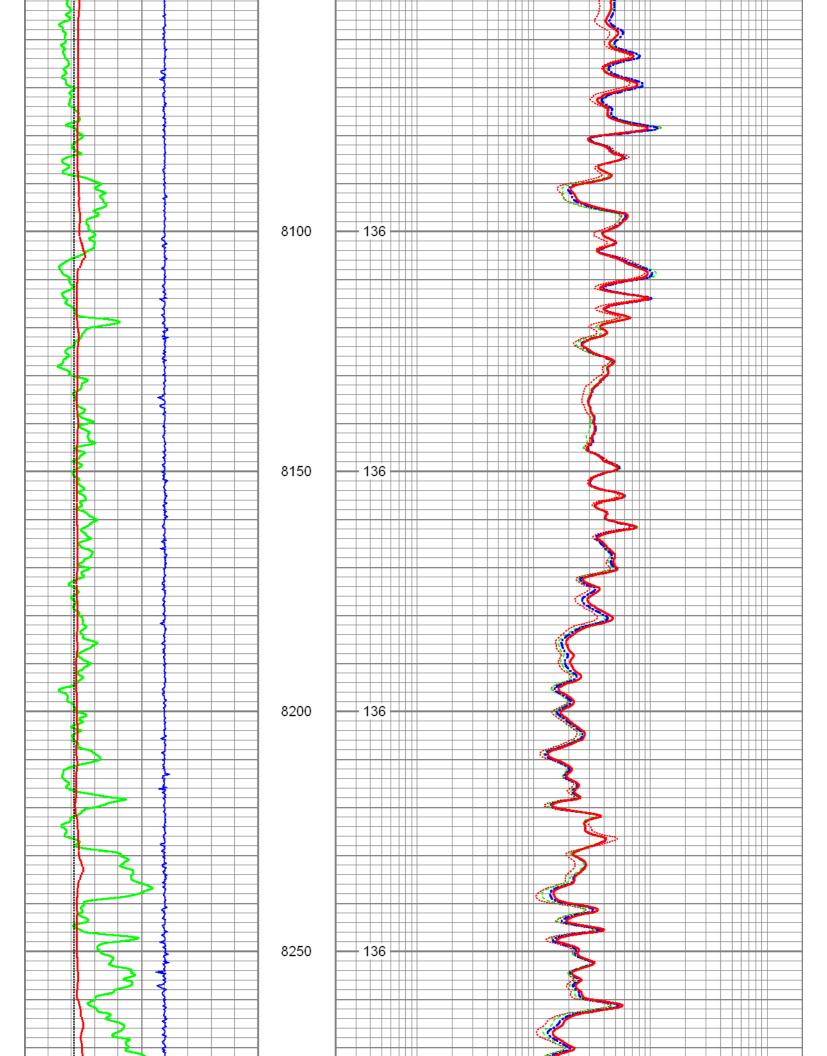


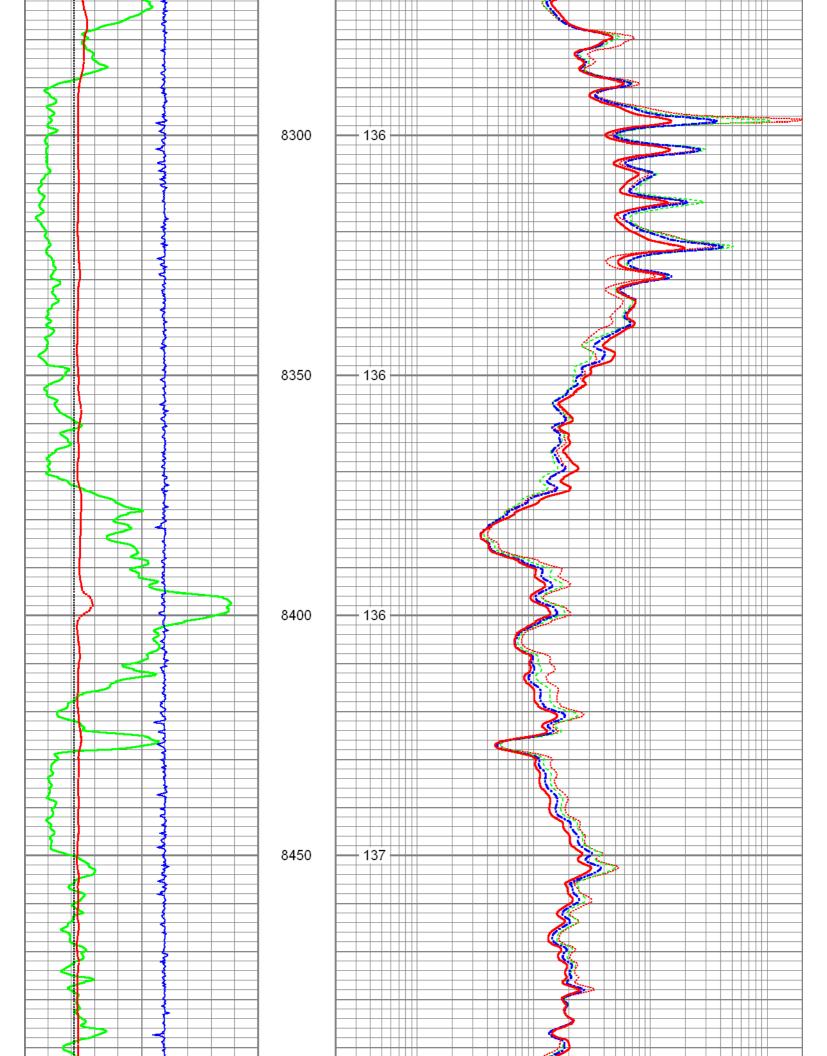


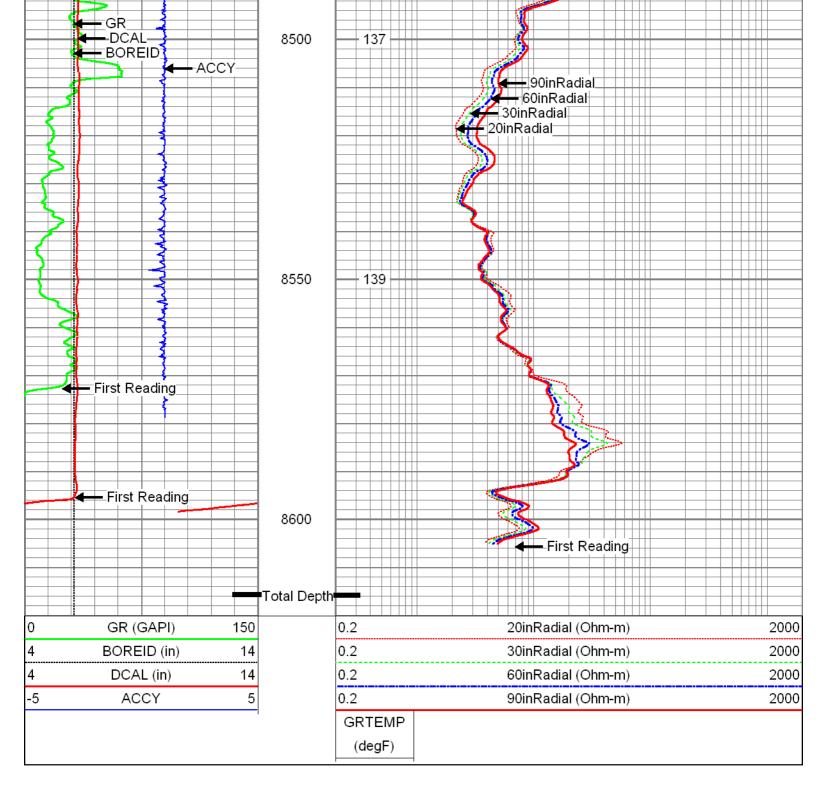












_og Varia		base:C:\Warrior\E set: field/well/pro		m.db			
			Top - Botto	m			
A	BHCOR	BHFL_TYPE	BHIDSRC	BOREID in	BOTTEMP degF	CASED?	
1	On	WBM	CURVE	6.125	138	No	
CASEOD in	CASETHCK in	CEMWATERSA kppm	CMNTTHCK in	FLUIDDEN g/cc	FRMSALIN kppm	LATNOR	
4.5	0	0	0	1	0	Off	
М	MATRXDEN g/cc	MUDSALIN kppm	MudWgt lb/gal	NPORSEL	PERFS	RESTMPSRC	
2	2 71	12	84	Limestone	0	INTERNAL	1

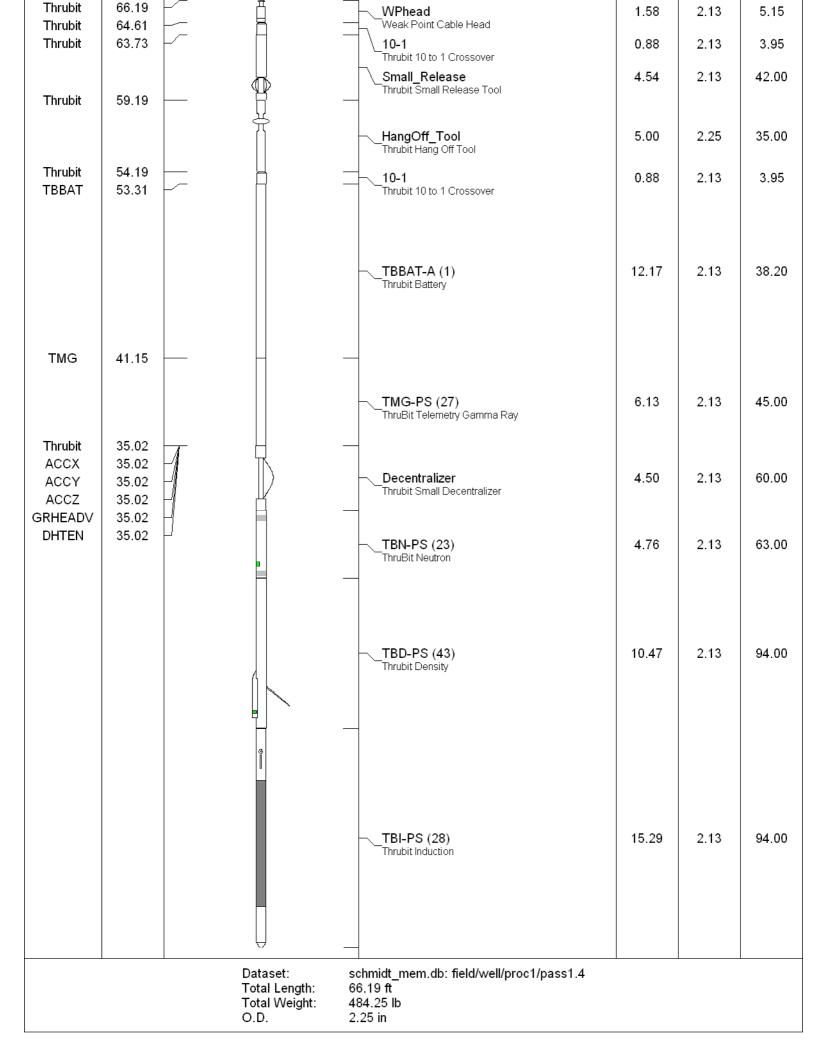
SO in 0.5SRFTEMP degFSZCOR SZCORTDEPTH ftTMPCOR TOOLPOSTOOLPOS TOOLPOS0.565On8670OnFree		0.1	Lintottono	Ŭ	
	IP SZCOR	TDEPTH ft	TMPCOR	TOOLPOS	
	On	8670	On	Free	

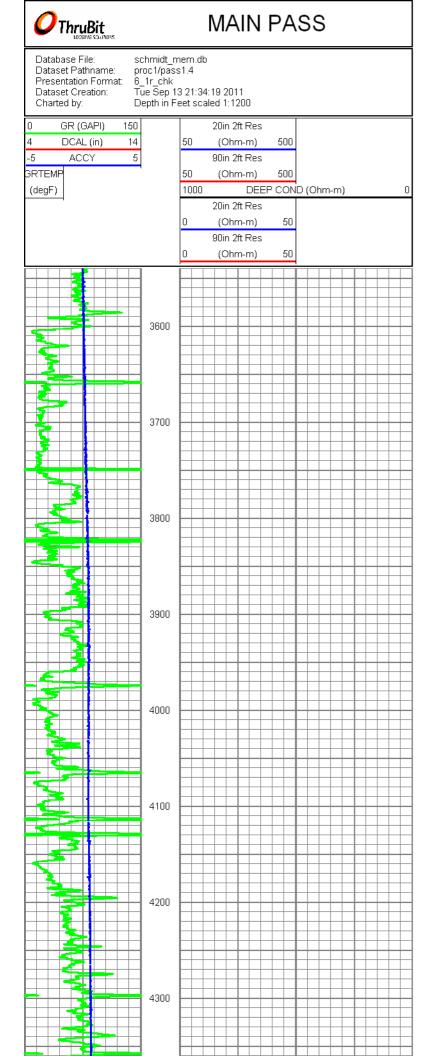
Calibration Report       Database File:     schmidt_mem.db proc1/pass1.4 Tue Sep 13 21:34:19 2011       ThruBit Induction Calibration Report       Serial-Model:     28-PS       Shop Calibration Performed:     Sat Sep 03 11:16:18 2011       BaseLine     R     X       Freq 1     -469.2690     242.8270       A1     -469.2690     242.8270       A2     -139.1180     356.2730       A3     -24.2833     103.6150       A4     -14.2774     241.3390       A5     -13.0893     121.8110       Freq 2       A1     -244.3640     128.1320       A2     -90.6536     203.7130       A3     -18.7401     16.1688       A4     -17.7948     -14.4559       Freq 3     -17.7948     -14.4559       Freq 3     -156.0320     21.3573       A1     -156.0320     21.3573								
Dataset Pathname:	proc1/pass1.4							
	ThruBit Induc	tion Calibration Report						
	Serial-Model:	28-PS						
	Shop Calibration Performed:	Sat Sep 03 11:16:18 2011						
BaseLine								
	R	Х						
A1 A2 A3 A4	-139.1180 -24.2833 -14.2774	356.2730 103.6150 241.3390						
Freq 2 A1 A2 A3 A4	-244.3640 -90.6536 -18.7401 -17.5485	128.1320 203.7130 16.1688 71.9563						
	-156.0320 -70.1178 -15.0995 -18.7864 -19.3813	21.3573 107.3870 -45.1136 -40.4596 -114.2380						
Freq 4 A1 A2 A3 A4 A5	-84.6690 -50.7592 -13.1682 -22.5289 -25.4386	-146.4640 -18.2619 -136.4420 -207.0720 -280.4840						
Calibration Coeffi	cients							
	R	Х						
Freq 1 A1 A2 A3 A4 A5	0.9879 0.9904 0.9950 0.9867 0.9878	0.0034 0.0043 -0.0032 0.0060 0.0045						

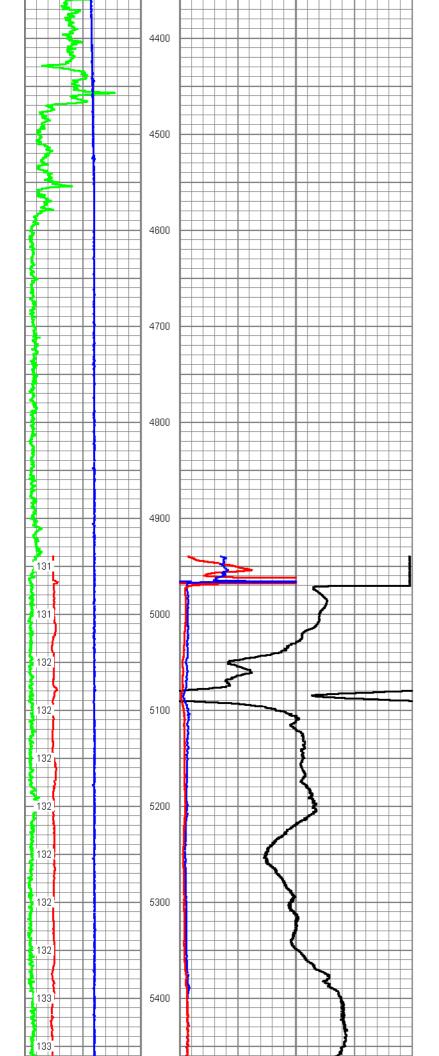
Freq 2 A1 A2 A3 A4 A5 Freq 3 A1 A2	0.9823 0.9842 0.9830 0.9823 0.9841 0.9980 1.0002	-0.0051 -0.0040 -0.0023 -0.0038 -0.0098 -0.0087	
A3 A4 A5	0.9986 0.9975 1.0003	-0.0089 -0.0071 -0.0087	
Freq 4 A1 A2 A3 A4 A5	0.9920 0.9936 0.9939 0.9935 1.0025	-0.0022 -0.0016 -0.0036 -0.0004 -0.0037	
Temperature	34.7054		
	ThruBit Den	sity Calibration Report	
Serial-Mod	el:	43-PS	
Shop Calib	ration Performed:	Sun Sep 11 20:39:05 2011	
References			
	Density	Units	
Aluminium Magnesium	2.602 1.715	g/cc g/cc	
Readings			
	Counts	Units	
SS1 Background LS1 Background LS4 Background	141.44 146.61 30.83	cps cps cps	
SS1 Aluminium LS1 Aluminium LS4 Aluminium	4203.29 857.60 953.05	cps cps cps	
SS1 Magnesium LS1 Magnesium	6865.62 5300.34	cps cps	
LS1 AI + Fe LS4 AI + Fe	732.72 420.95	cps cps	
Results			
SS Slope LS Slope PEF K Factor PEF B Factor	1.76 0.45 3.360 -0.106		
	Compensated N	leutron Calibration Report	

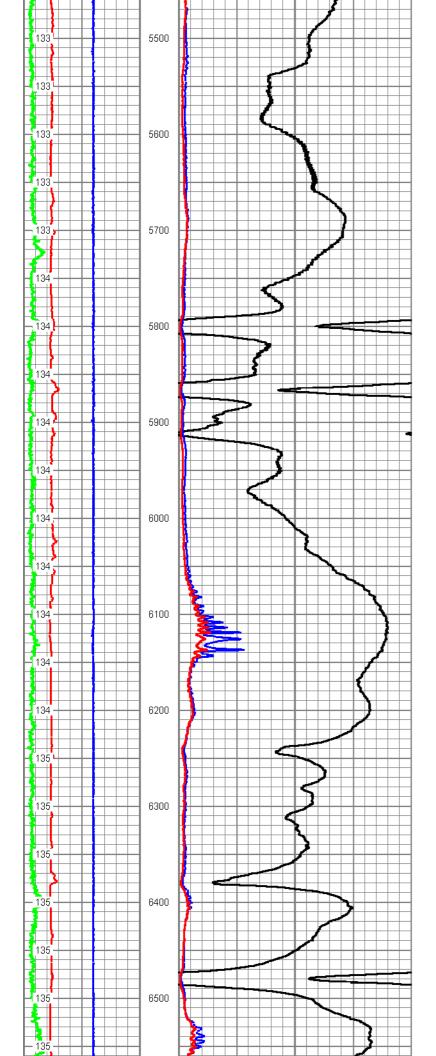
	Tool Sour	l Number: Model: ce Number: ration Tank Tei	mperature:		23 PS 0.0 degF							
BACKGROUND MEASURE	MENT											
	SS C	ounts	LS Coun	ts								
	0.0		0.0									
WATER TANK REFERENC	E	Sun Sep 1	11 19:08:54	4 2011								
	SS C	ounts	LS Coun	ts								
	0.0	cps	0.0	cps								
	Tank	Ratio Ref	Tank Rat	tio	Tank Ratio	Gain						
	30.95	80 SS/LS	30.1831	SS/LS	1.0257							
ALUMINUM SLEEVE REFE	RENCE											
	SS C	ounts	LS Coun	ts								
	0.0	cps	0.0	cps								
	Al Ra	tio Ref	Al Ratio		Al Ratio G	ain						
	0.000	SS/LS	0.000	SS/LS	1.01							
	Sleev	e Porosity										
	0.00	pu										
Al Ratio Ref Al Ratio Al Ratio Gain 0.000 SS/LS 0.000 SS/LS 1.01 Sleeve Porosity 0.00 pu Gamma Ray Calibration Report Serial Number: 27 Tool Model: PS												
			9:18:56 20	11								
Calibrator Value:		166.3	GAP	I								
Background Reading: Calibrator Reading:		76.5 438.4	cps cps									
Sensiti∨ity:		0.3750	GAP	l/cps								
	In	clinometer Cali	bration Re	port								
Performed:	Sun Jun 13	14:33:21 1993										
l	ow Read.	High Read.		Low Ref.	High Ref.							
X Accelerometer	0.00	1.00		0.00	1.00	gee						
Y Accelerometer	0.00	1.00		0.00	1.00	gee						
Z Accelerometer												

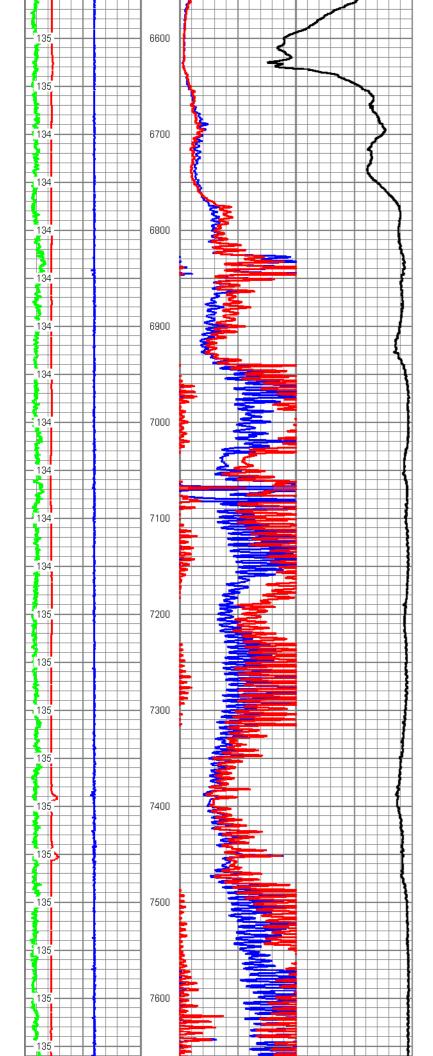
Senso	· Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

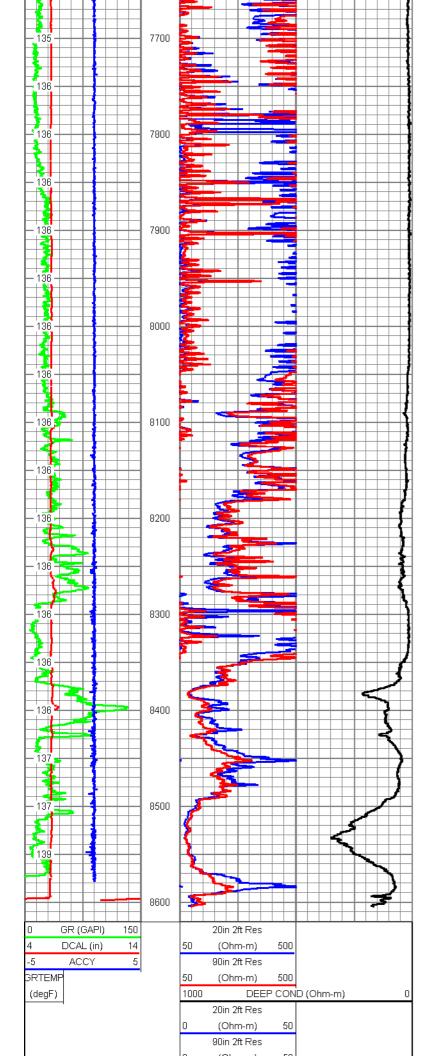
















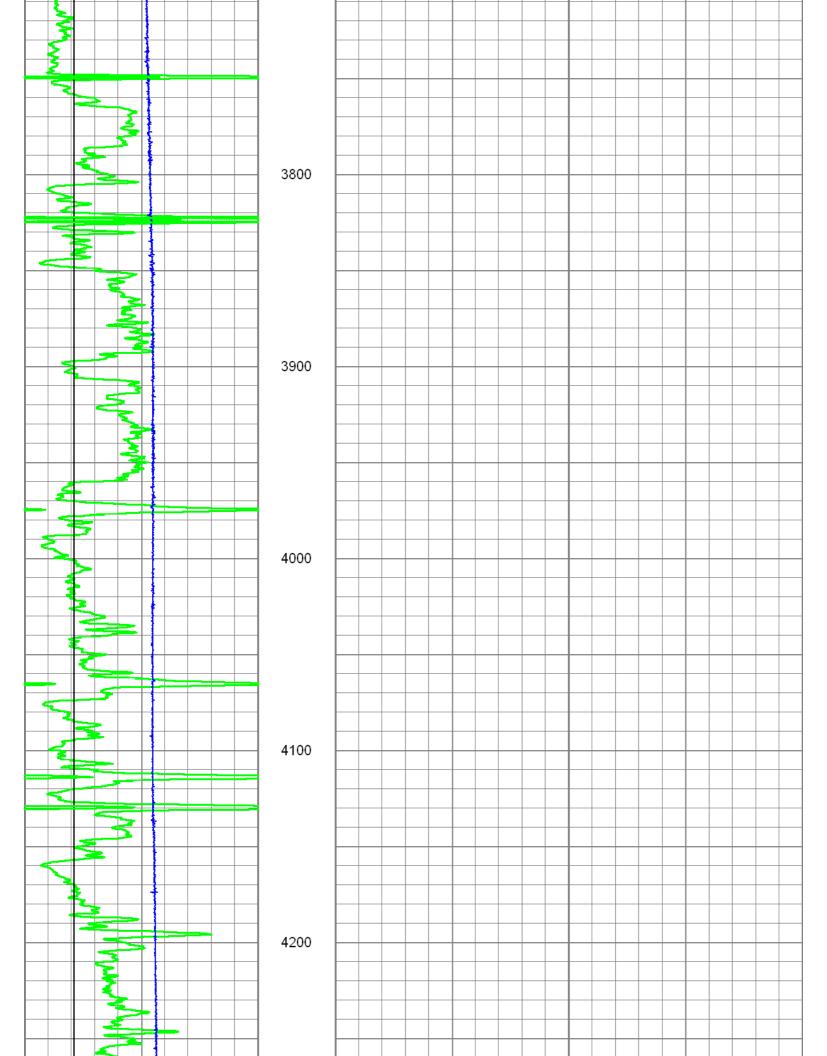
ompany	CHESAPEAKE OPERATING, INC.
/ell	SCHMIDT 3-34-4 1H
ield	SUMNER PROJECT/MISSISSIPPI LIME
ounty	SUMNER
tate	кѕ

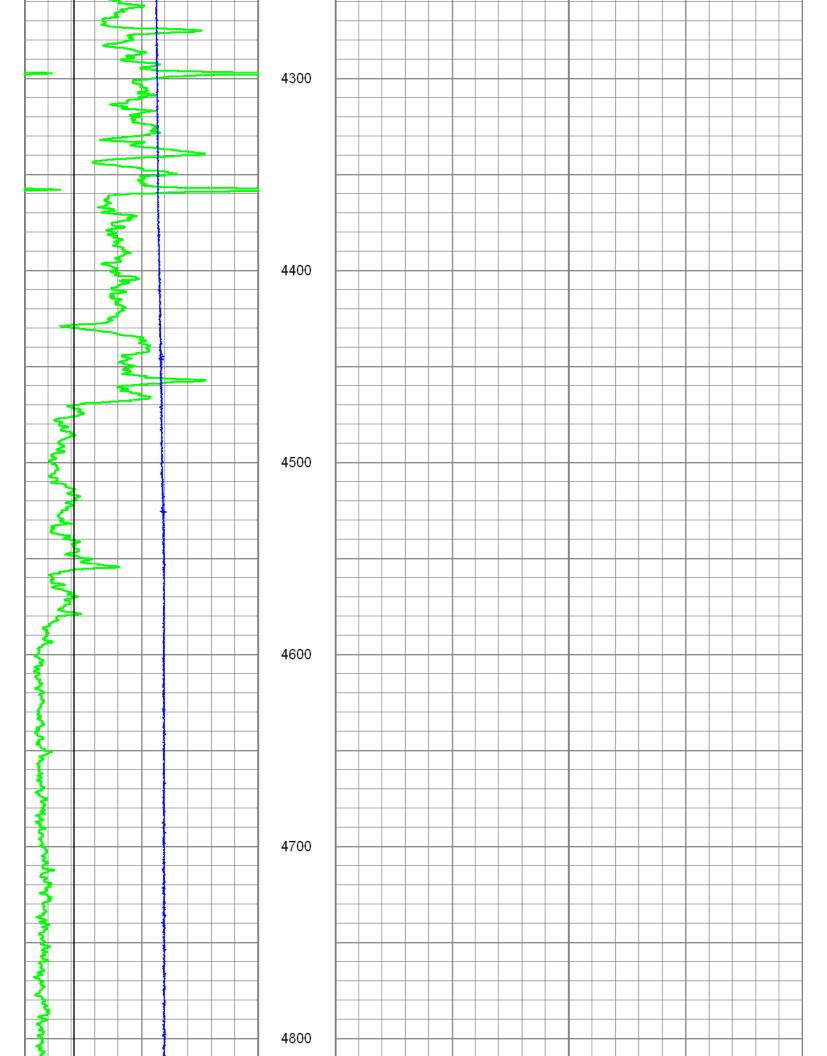
C ThruBit	ruBit	SPECTRAL DENSITY DUAL SPACED NEUTRON GAMMA RAY MEMORY LOG	TRON	ee the accuracy or onsible for any loss, s or employees. These	9FFS 50'' CSG		WARRIOR 7.0
C. PI LIME	Company	CHESAPEAKE OPERATING, INC.		or resp s, agents	ST MENTS ANDC OR 4.		/er
	Well	SCHMIDT 3-34-4 1H		liable fficers	UES REM ST S S ED F PTH		GM \
	Field	SUMNER PROJECT/MISSISSIPPI LIME	≤E	art, be of our o	REQ ASU , NC , FT , ATE G DE		P
E OPEI I-4 1H DJECT,	County	SUMNER State KS		n our p /any o	IER I ME ZER JME _CUI LOC	ED	
T 3-34 R PRC	Location:	API # : 15-191-22631	Other Services	nce or ade by	FON BITY RALI /OLU CAI ATE	RE	
HMID MNEF MNEF	SURF	SURF LOC: N/2 NE NE 180' FNL & 660' FEL	PORTAL BIT	egligei ion ma	CUS ROS ENTF LE V FT3, CRE	M/K	
SC SU	S	SEC 3 TWP 34S RGE 4W	Elevation	lful ne retat	R C PO ECE HO IE, I		2631
Compan <u>y</u> Well Field County State	Permanent Datum Log Measured From Drilling Measured From	um G.L. Elevation 1224' From D.F. 15' ABOVE PERM DATUM ed From D.F.	K.B. 1239' D.F. 1239' G.L. 1224'	oss or wil any interp nd condit	ents MEM( DSPE DFOR , S. D BORE /OLUM JSED 1 GAMM	DAD # . FRAN	5-191-2
Date		13 SEPTEMBER 2011		ofgi rom nsa			
Run Number		ONE		ase ng f I teri	00\ TA , U , WI OT OL SO		).
Depth Logger		8616'		he c esult	EN CC S S S T EH PA		IN
Bottom Logged Interval	IVal	8595		int nere	ES G/ NS NT OR		AP
Lop Log Interval		7" @ 4062'		cept nyoi	PR 71 VA SE B	D.	
Casing Logger		7" @ 4965'		, ex by a	D   , 2. H E RE AF	N:	
Bit Size		6.125"		l no ned	AN RIX /ITI EPI IUL	?E/	
Type Fluid in Hole		o A 137		shal stair	S TF N RE NN	CF	
pH / Fluid Loss		9.0 / NA		we rsu:	ALE MA AN HV S A NDE		
Source of Sample		MUD PIT		and ed c			
Rm @ Meas. Temp		1.0 OHMS@75 DEGF		on, urre			4
Rmf @ Meas. Temp		75 OHMS@75 DEGF		tatio inc	RII RII RII		73
Rmc @ Weas. I emp				pre ses	A ES ST RE		
Source of Rmf/Rmc				iterp iens	IMI L S EPF		0.
кт @ вні Time Circulation Stopped		13:00 13SEPT2011		ons a ny in	LI DOI RE		et N
Time Logger on Bottom	tom	14:30 13SEPT2011		tatio of a	T		ick
Maximum Recorded Temperature	l Temperature	138 DEGF		pret ss c			e Ti
Equipment Number		T008		nter :tne			vic
Location		OKC, OK	<< F	All in orrec	S		Ser
Kecorded by Witnessed By		JERRY EMBREY		co			
				c			ſ

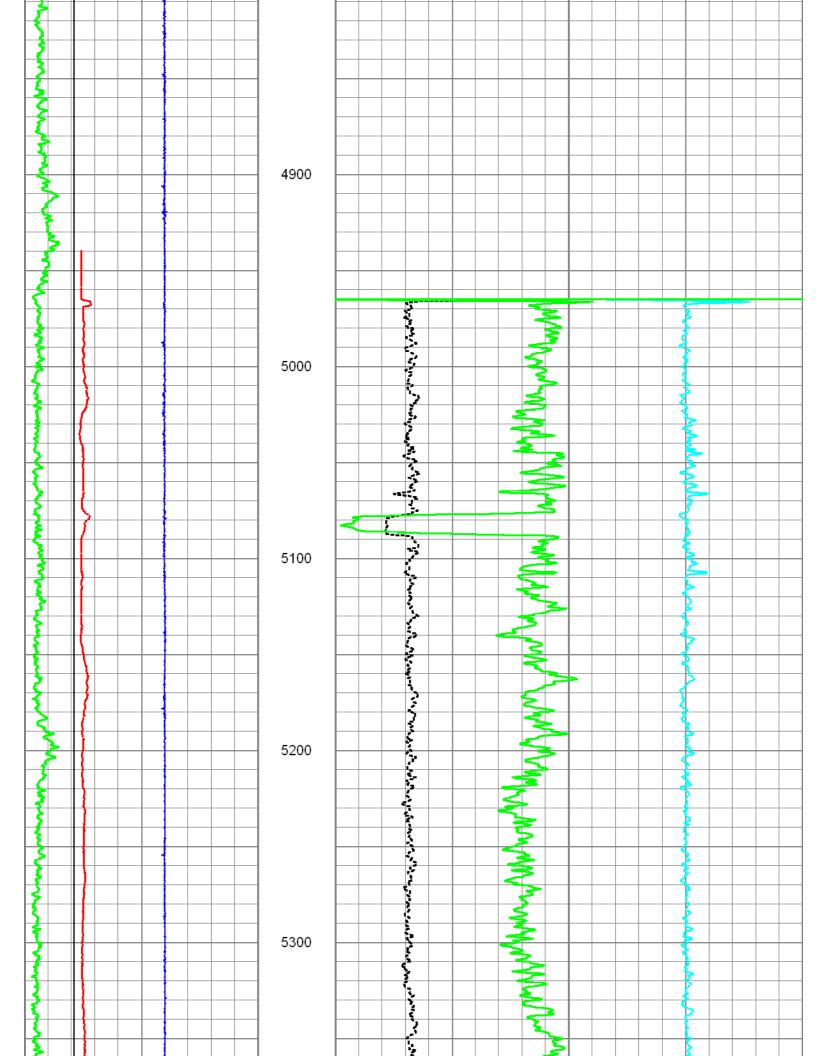
The Well Name, Location, Boreho	le Description, and / or Cementing	g Data Furnished by Client	
	EQUIPME	ENT DATA	
GAMMA RAY	NEUTRON	DENSITY	INDUCTION

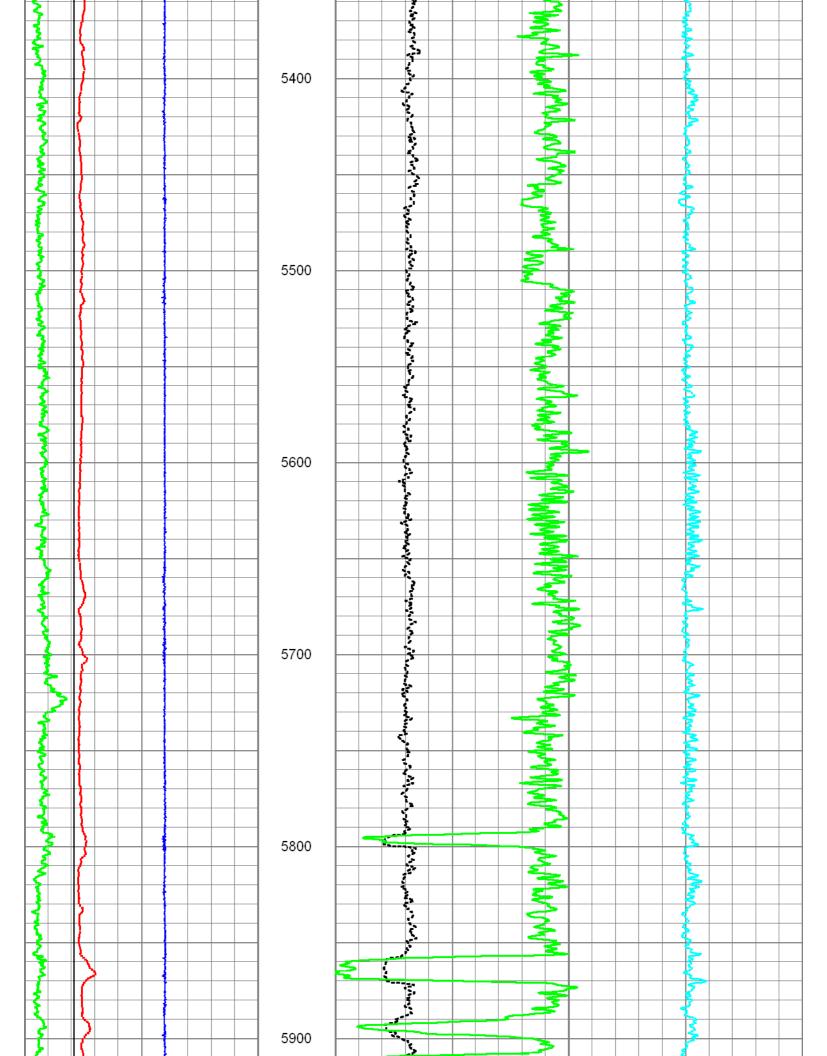
Run No.	ONE	Run No.		ONE	Run No	- D.		ONE	Run N	0.	ONE		
Serial No.	PS27T	Serial No.	F	PS23N	Serial	No.	F	S43D	Serial	No.	PS28R		
Model No.	PS	Model No.		PS	Model	No.		PS	Model	No.	PS		
Diameter	2.125"	Diameter		2.125"	Diamet	ter	2	2.125"	Diame	ter	2.125"		
				LOGG	SING DAT	Ą							
				Gen	eral Data								
Pass	De	pths	Well H	ead	Speed		Logging	Run Comn	nents				
No.	From	То	Pressu	ressure Ft/N									
ONE	8616'	3540'			30								
	GAMM	A RAY	Ν	IEUTRO	Ν		DEN	DENSITY			DUCTION		
Pass	Sca	ale		Scale				Scale		Sc	cale		
No.	L	R	L		R		L	R		L	L		
	0 API	150 API	30 %		-10 %	:	30 %	-10 %	0.	.2 OHM-M	2000 OHM-M		
I			DIRE		AL INFOR	L MATIC	ЛС				<u> </u>		
Maximum Deviation 94.4			deg. @	deg. @ 50		031' KOP		3525'					
						•		•					

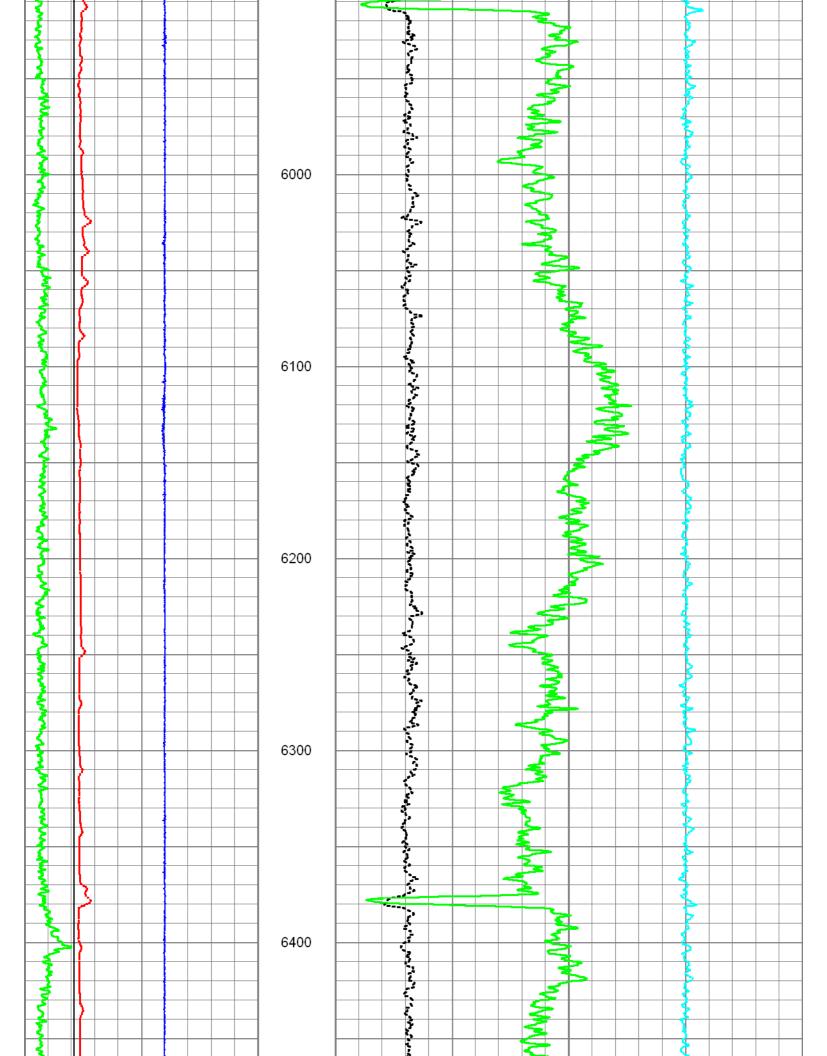
				VI.	A	11	١	P	A	S	S							
	Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:	schmidt_me proc1/pass1 6_2n_chk Tue Sep 13 Depth in Fee	1.4 21:34:19 20	11														
0	GR (GAPI)	150		0	PE	EF (b	arn)	)		10	-0.5		D	RHC	) (g/	cc)		0.5
4	DCAL (in)	14		2	 				RI	ЮВ	(g/co	:)						3
4	BOREID (in)	14																
-5	ACCY																	
			3600															
$\vdash$						-												
						_												
$\vdash$						+	_											
			3700															
			3700															

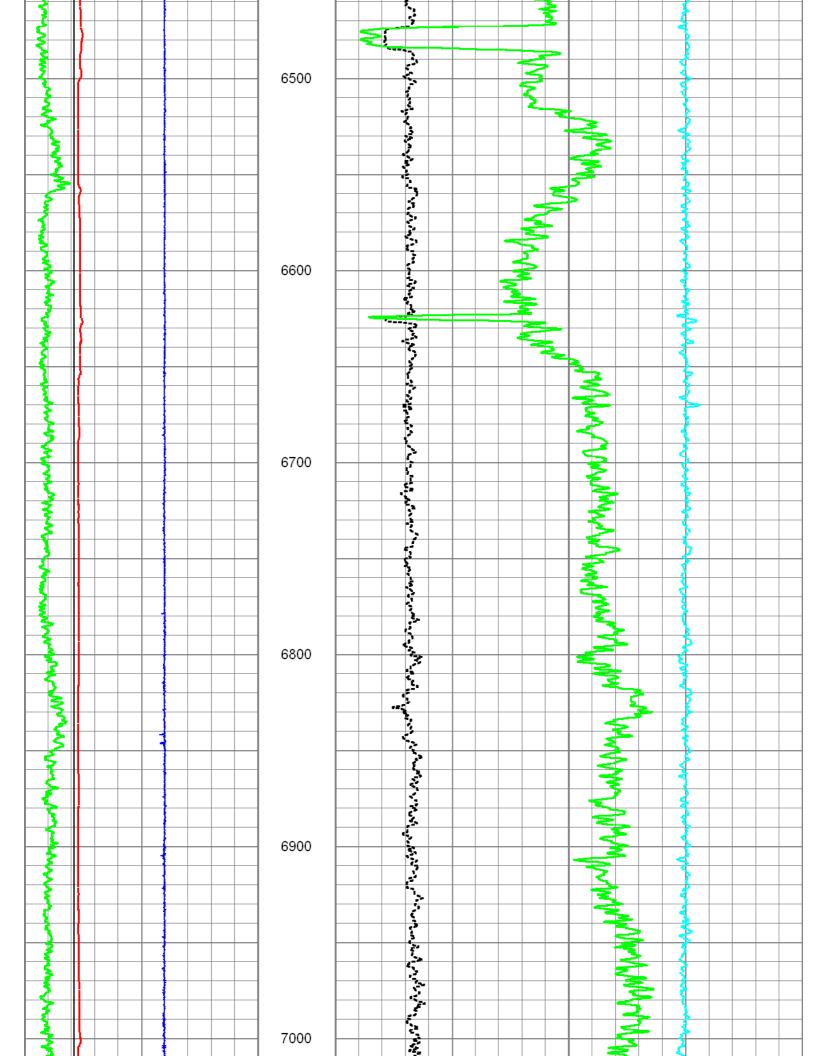


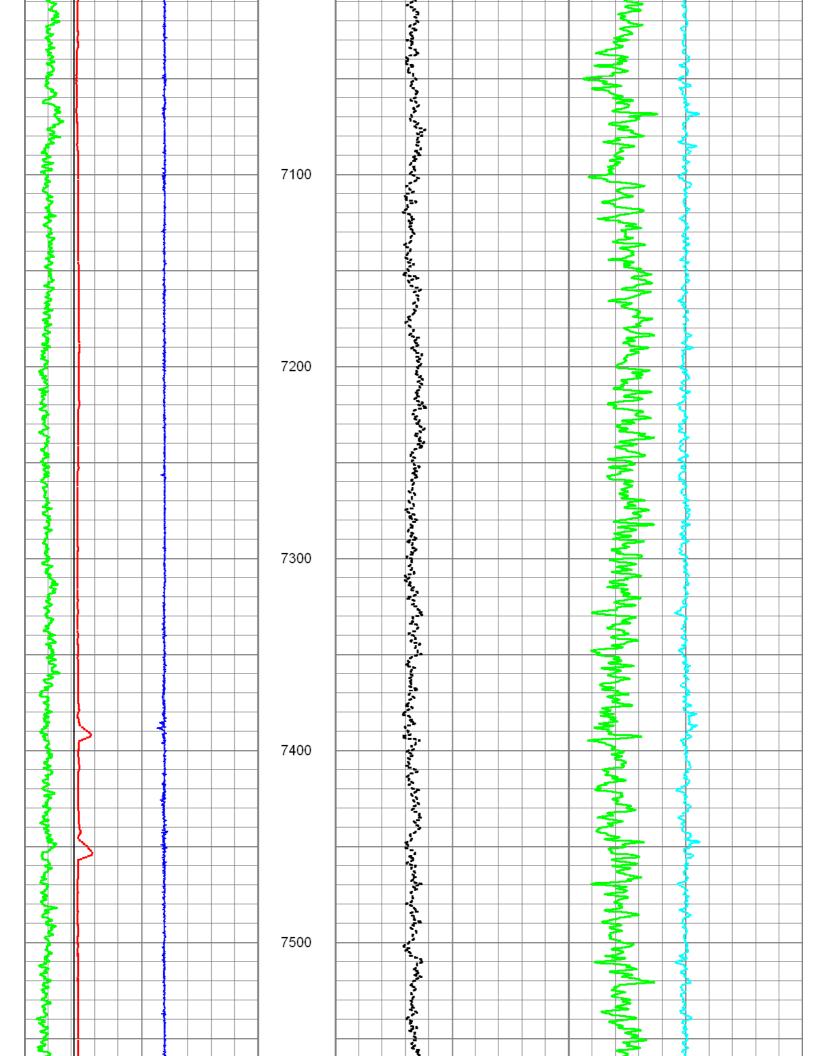


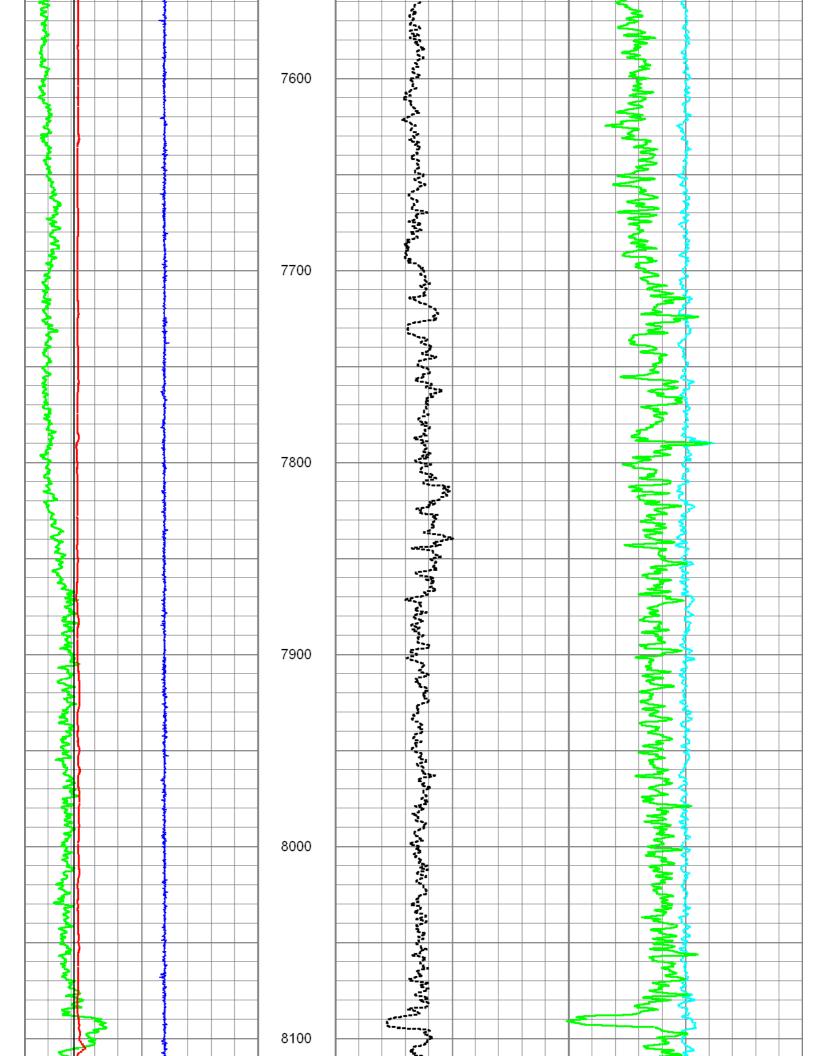


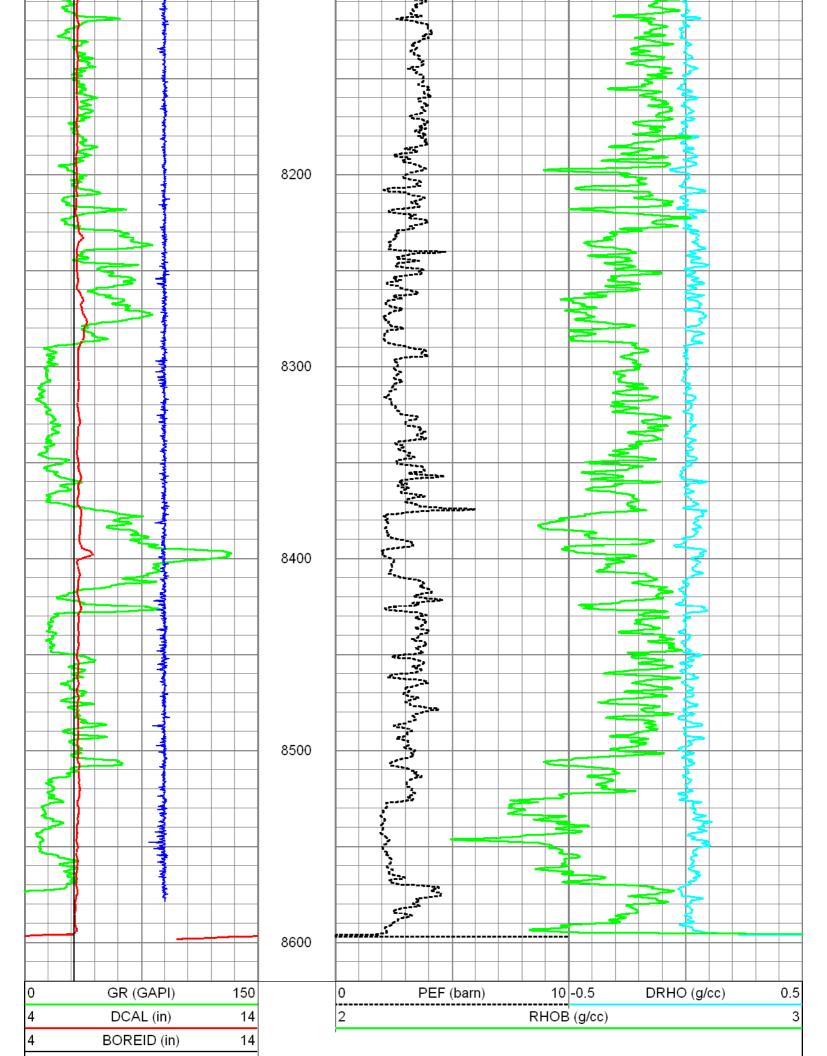




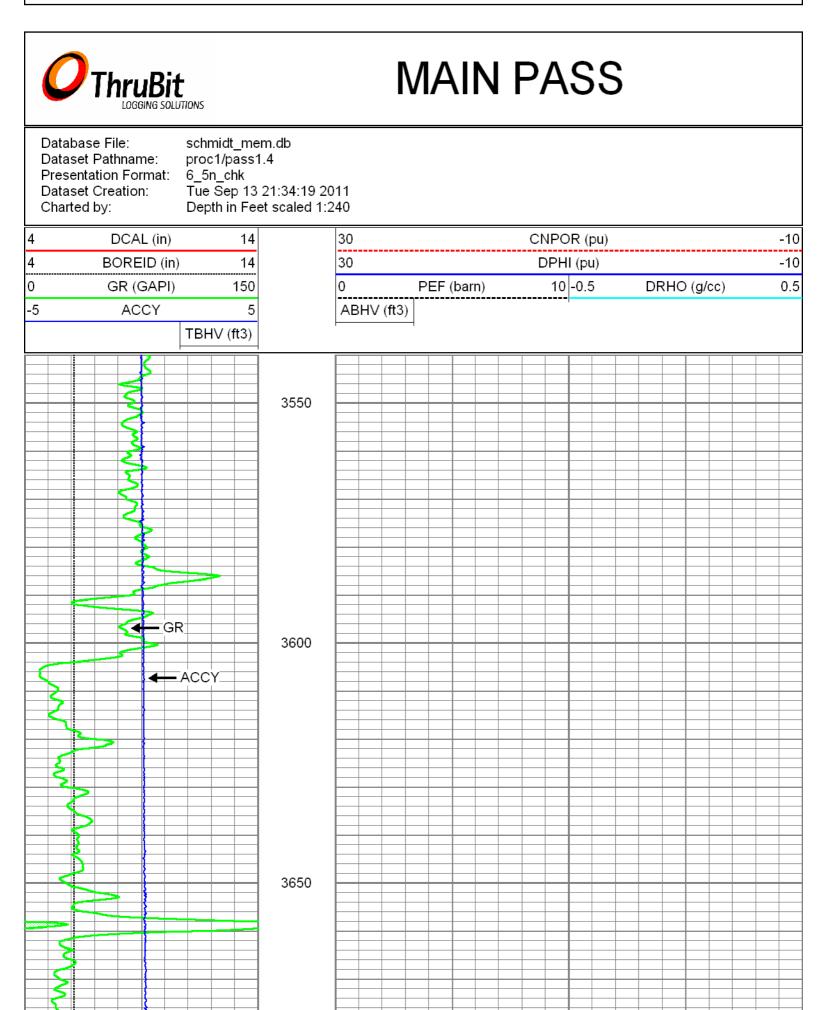


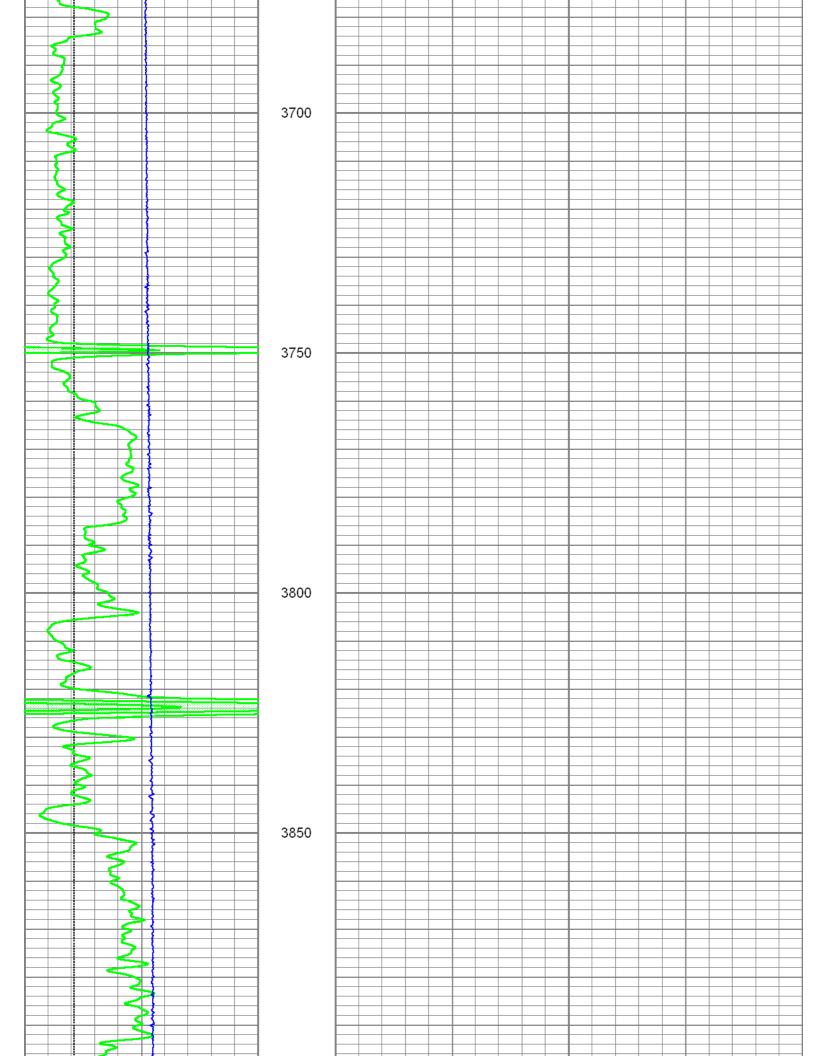


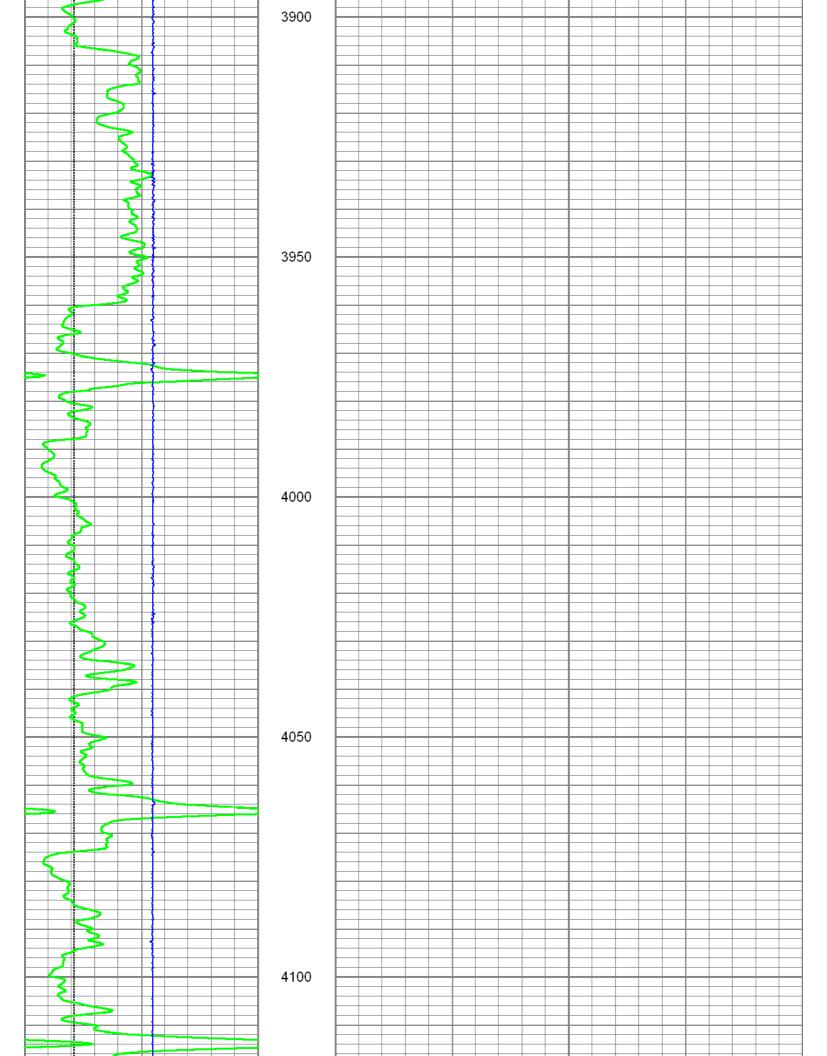


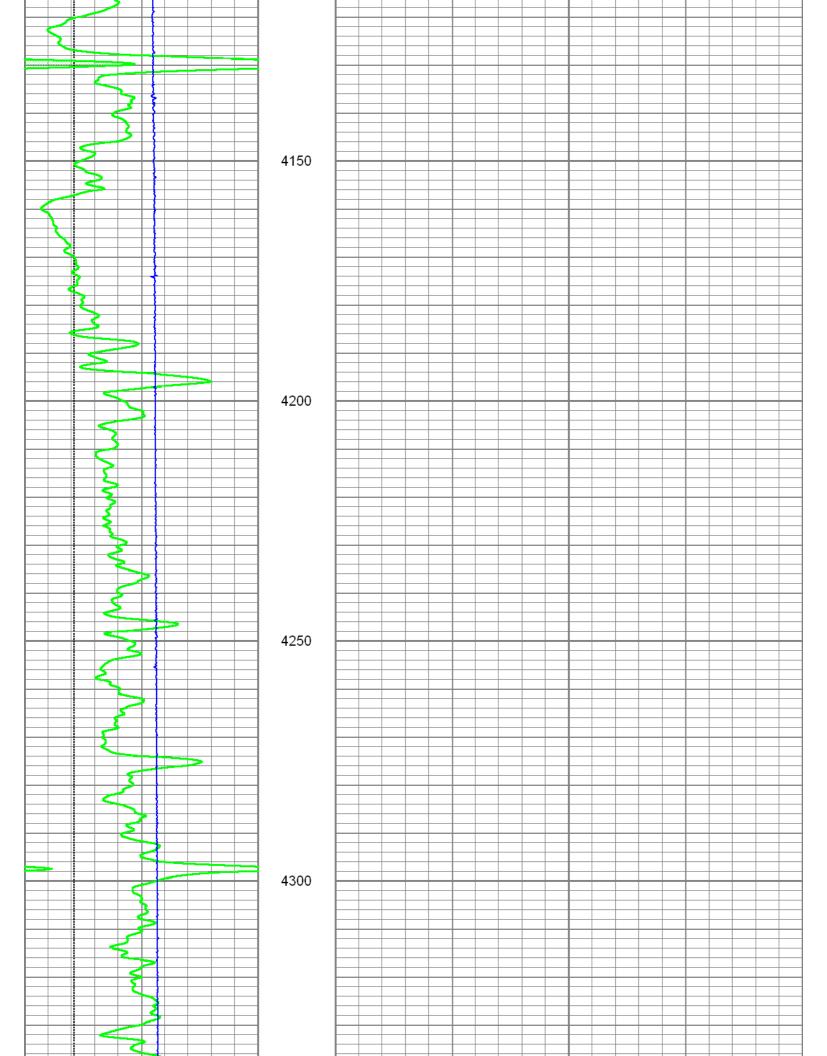


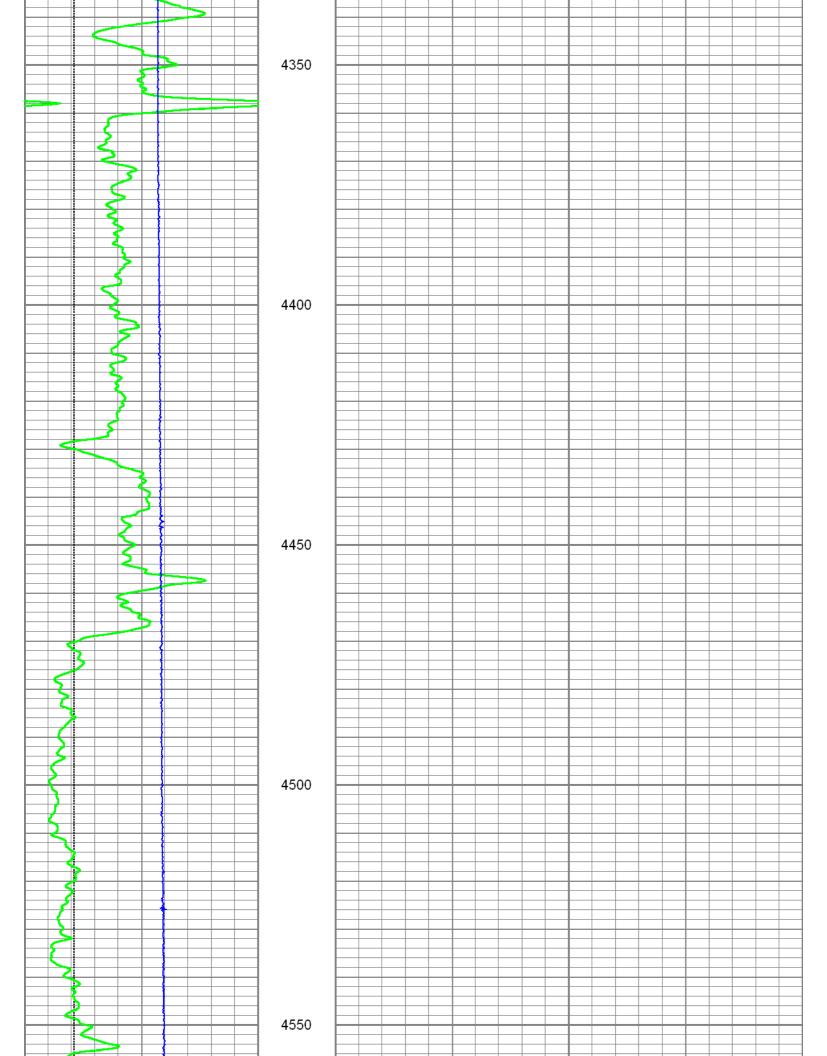


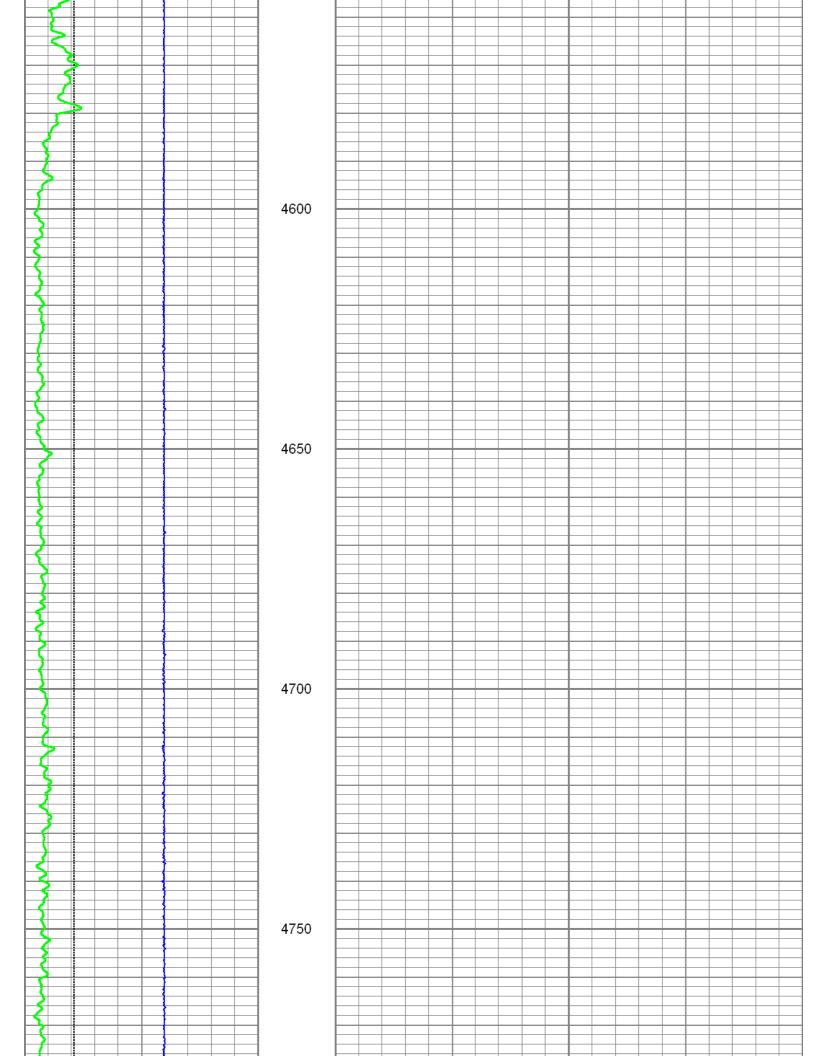


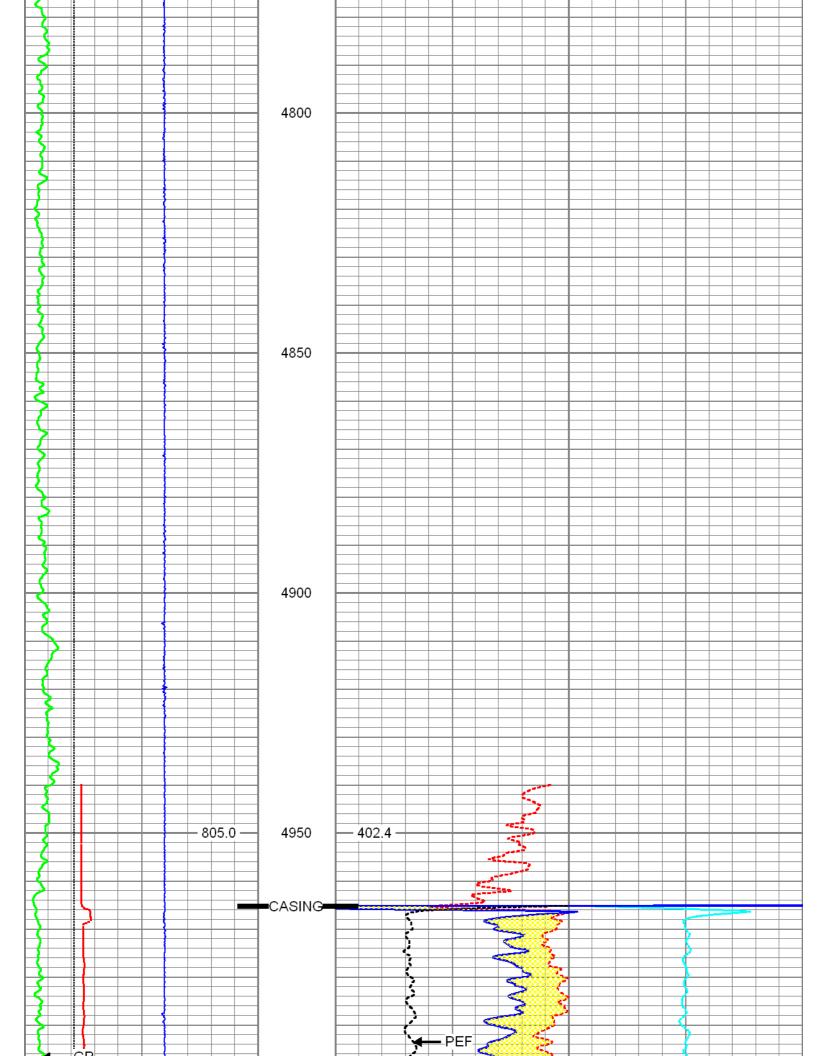


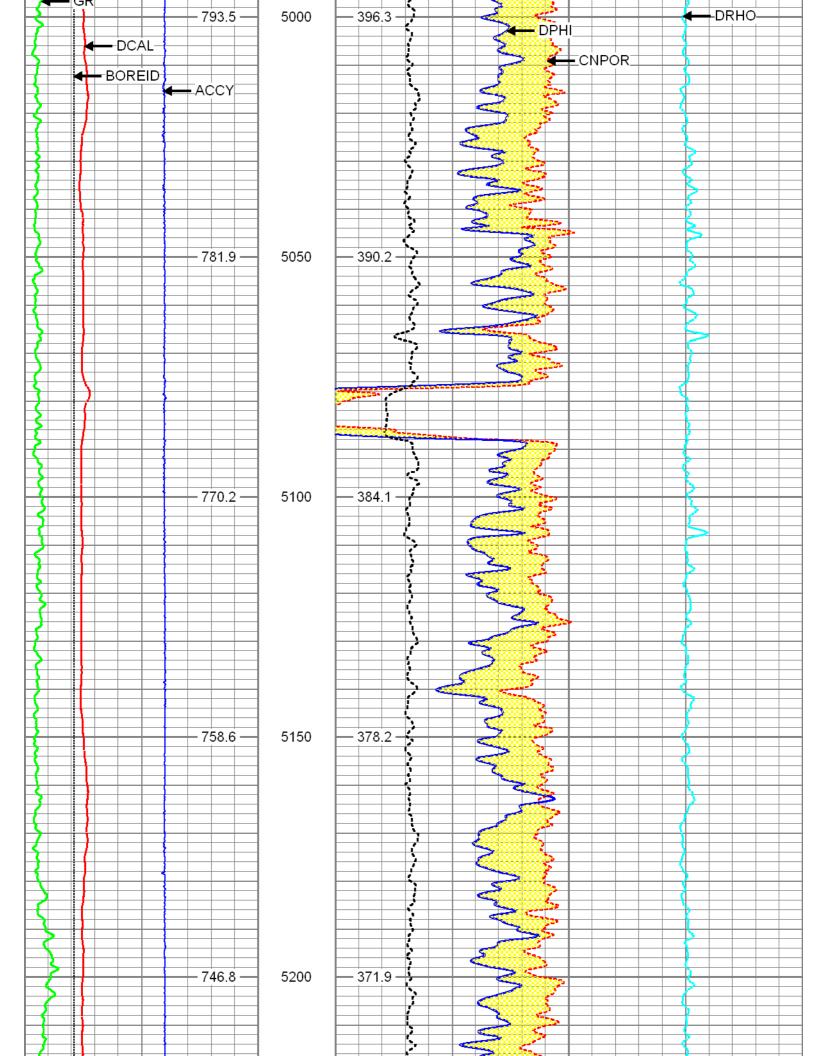


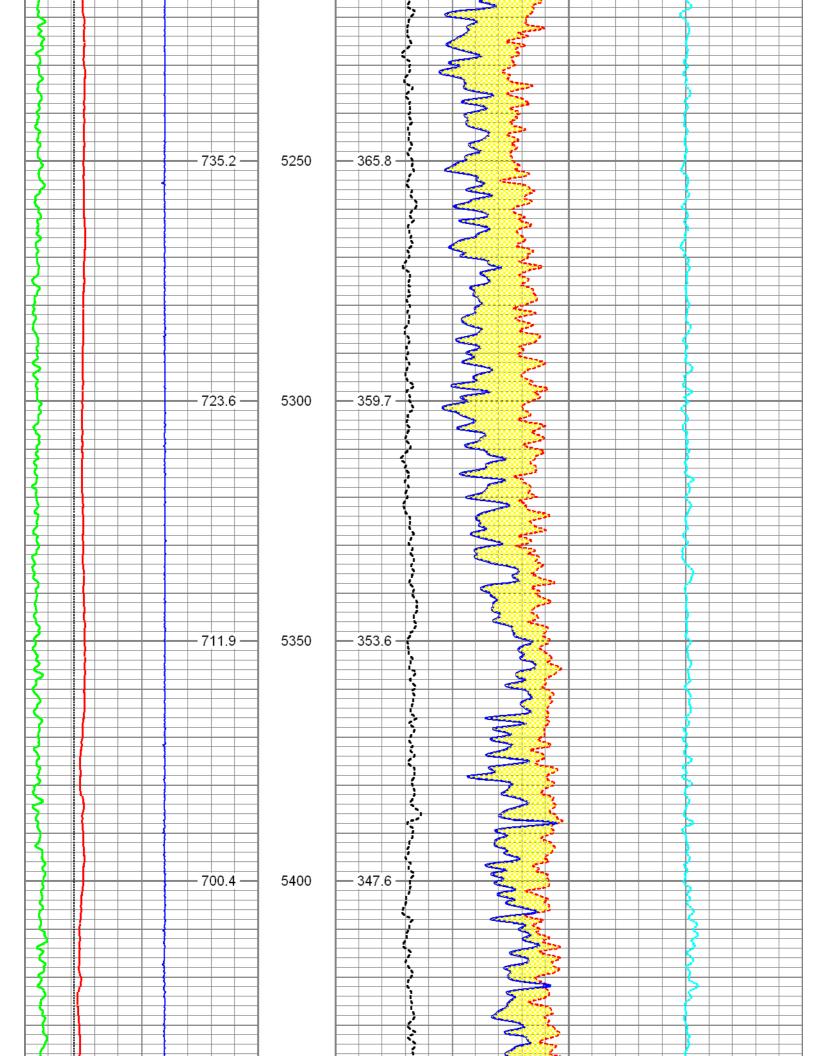


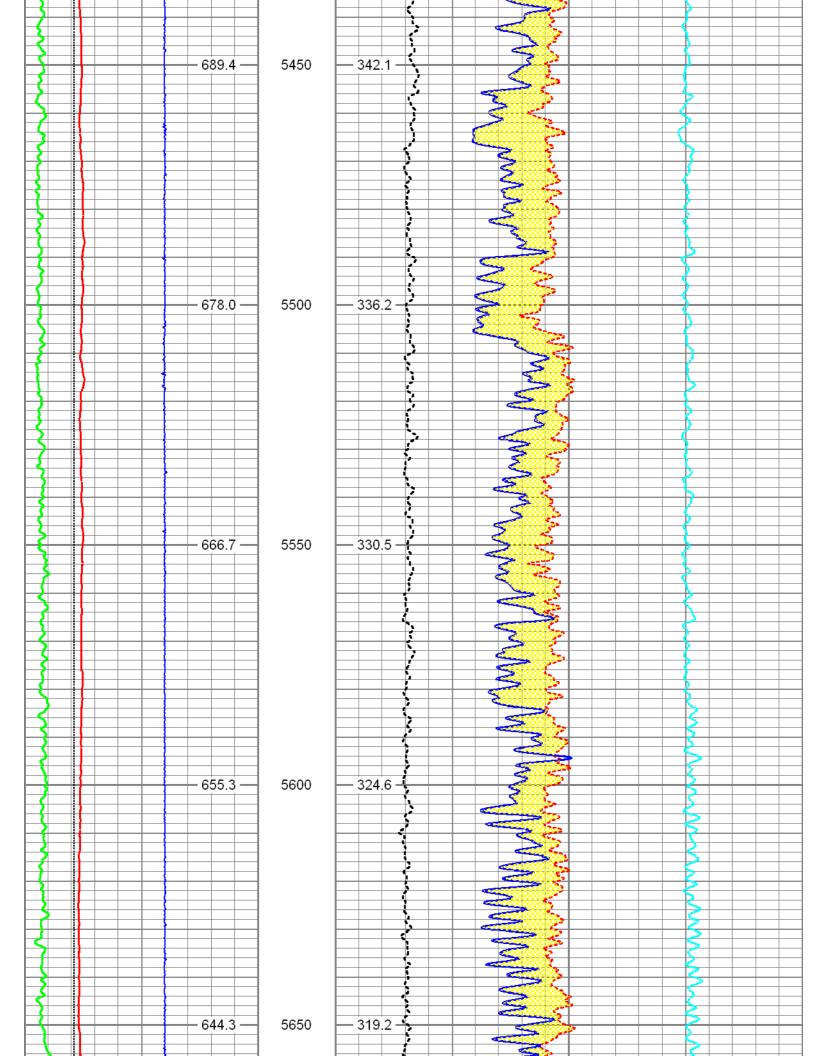


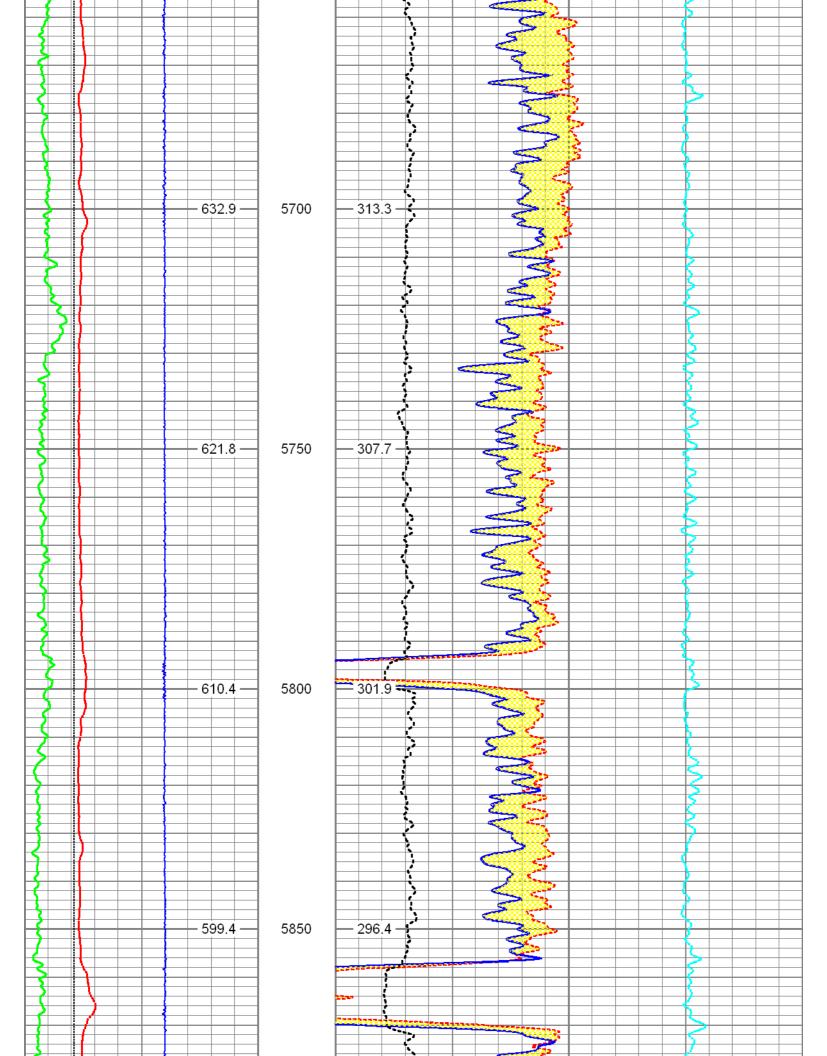


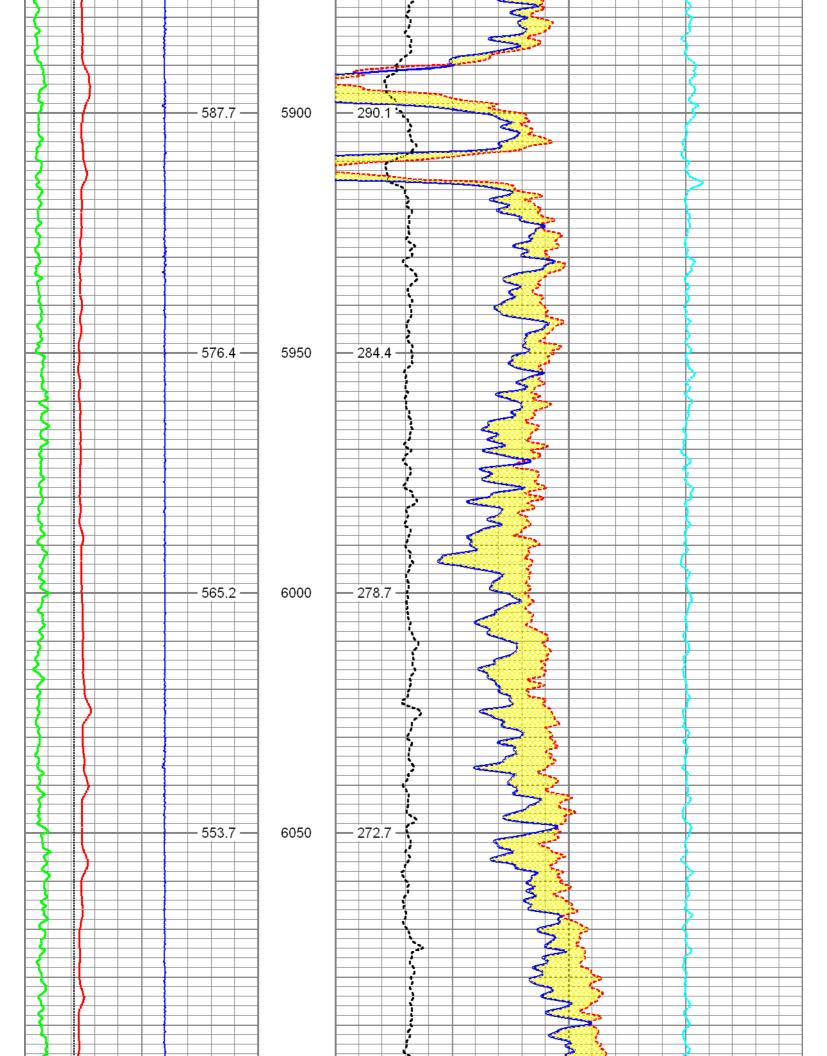


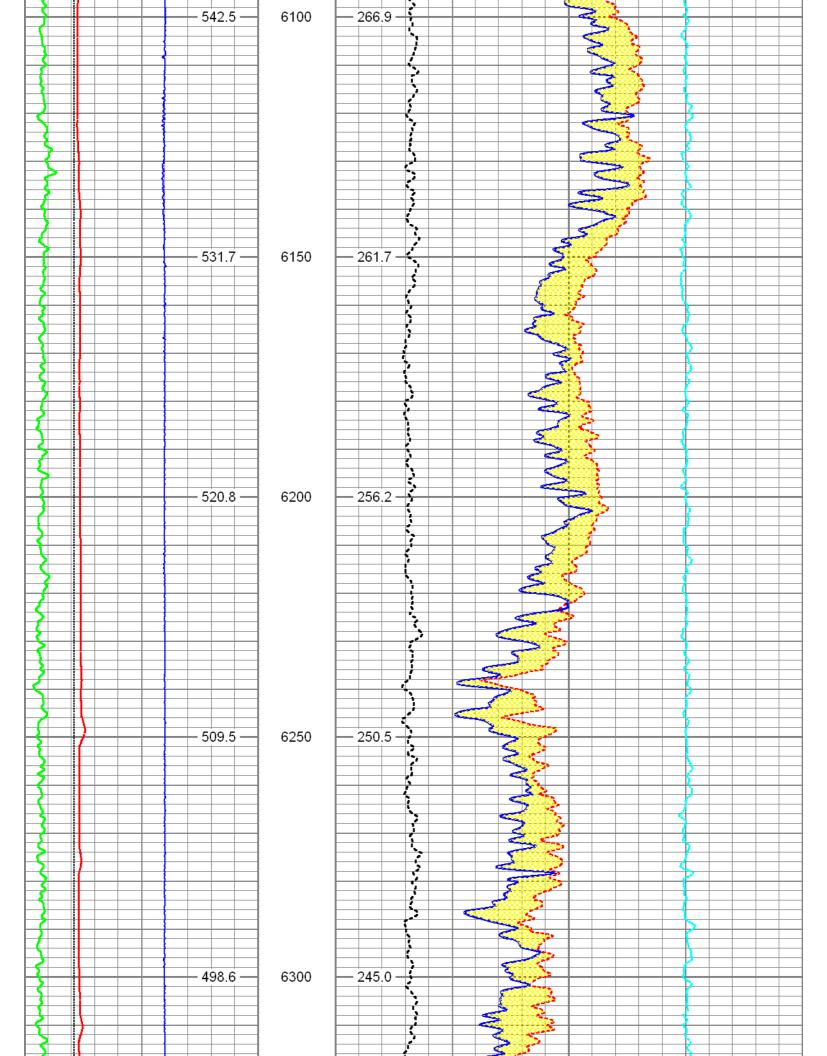


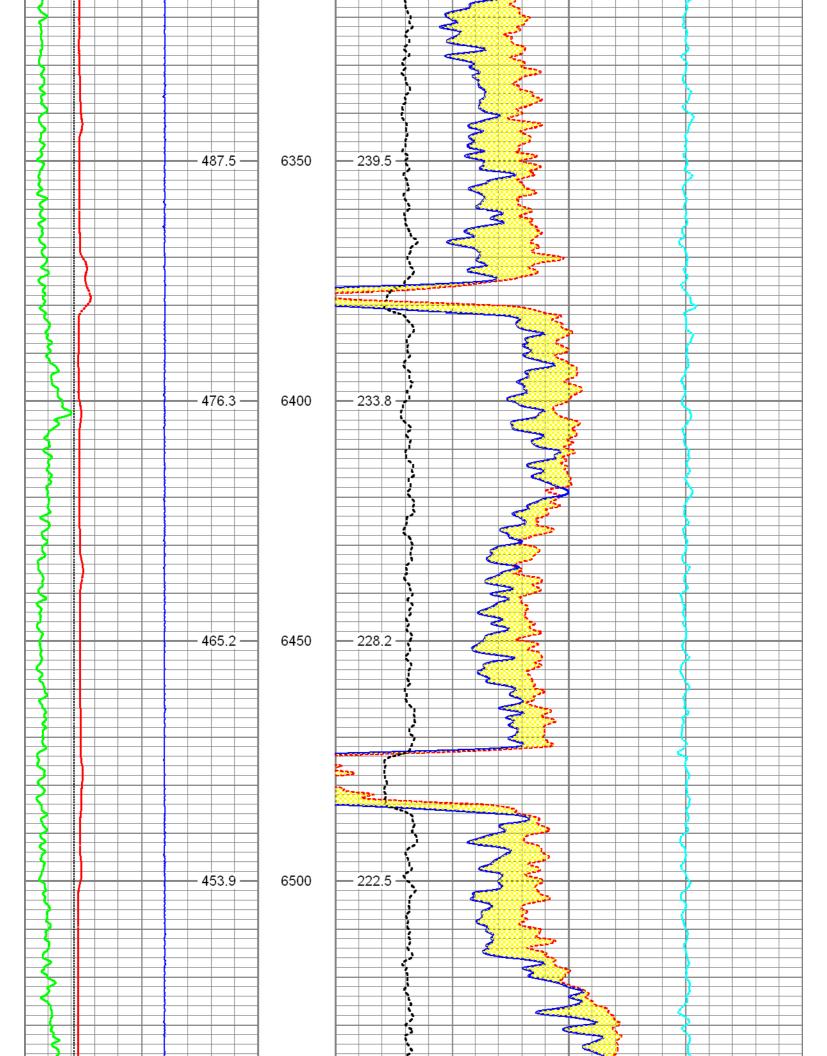


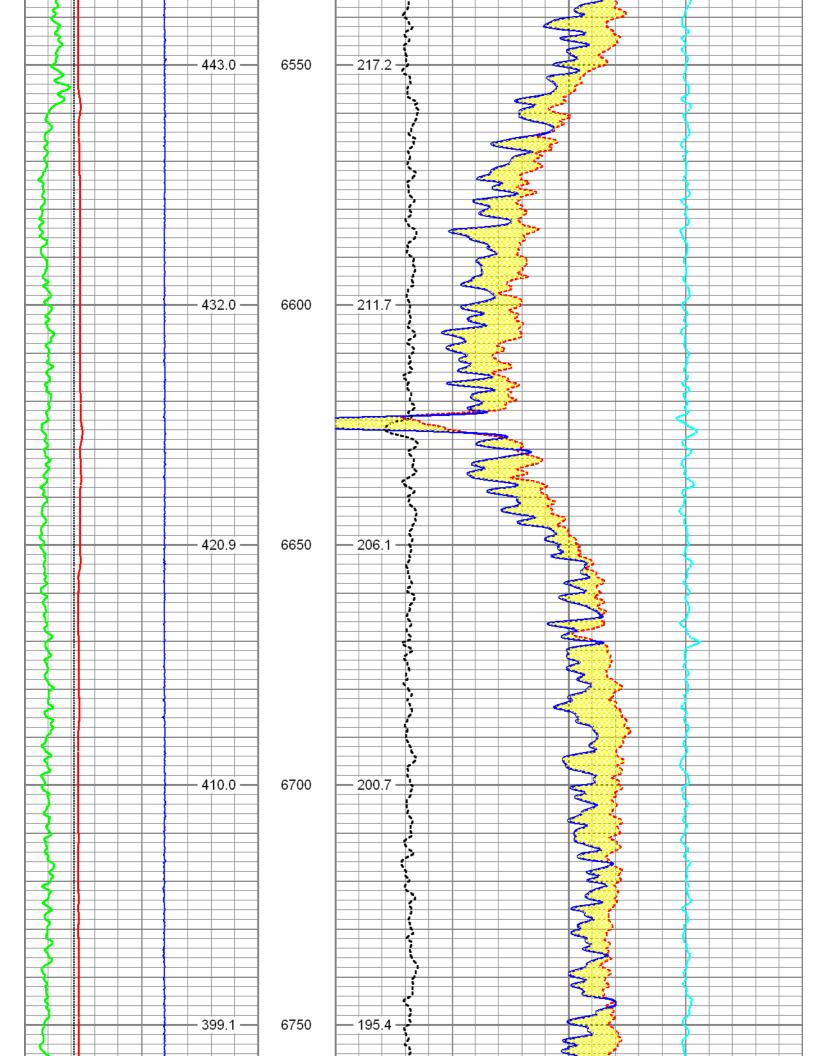


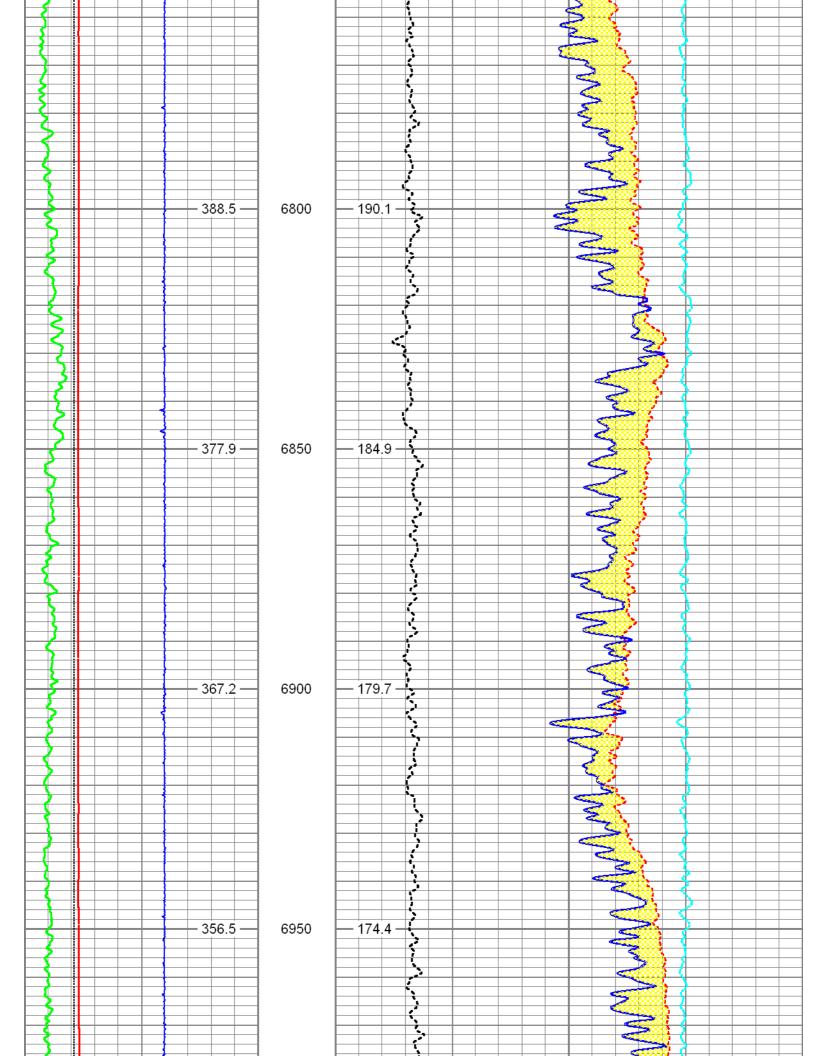


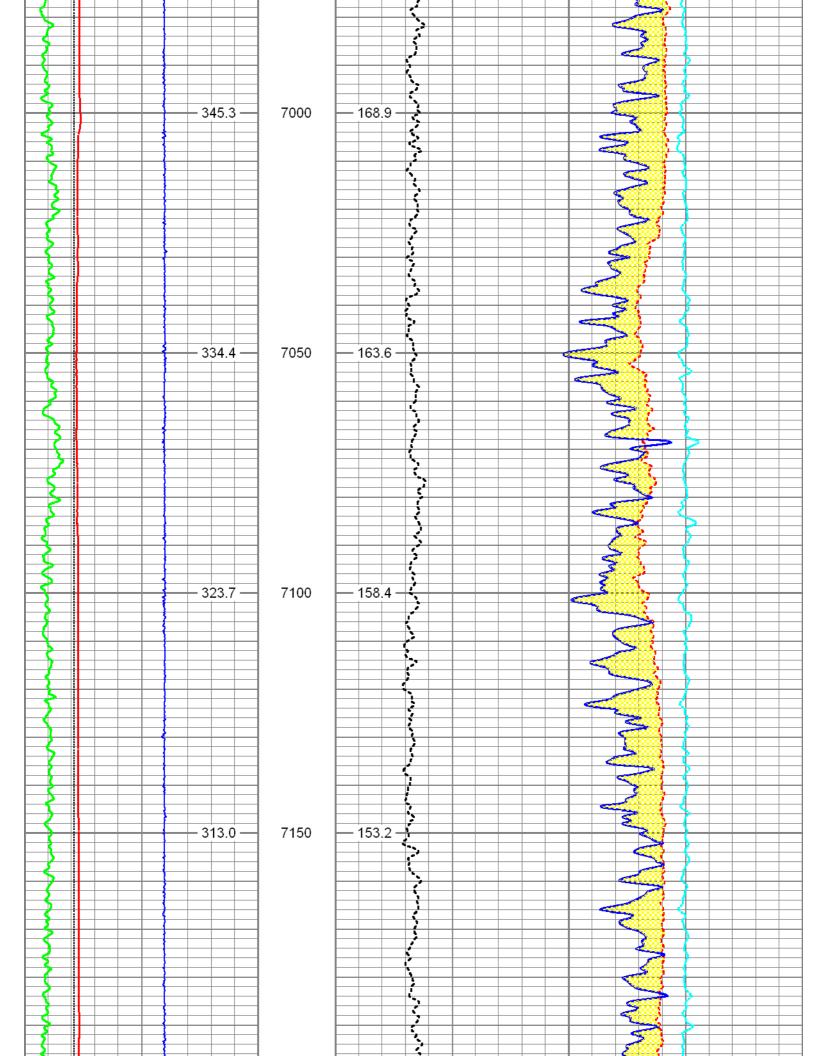


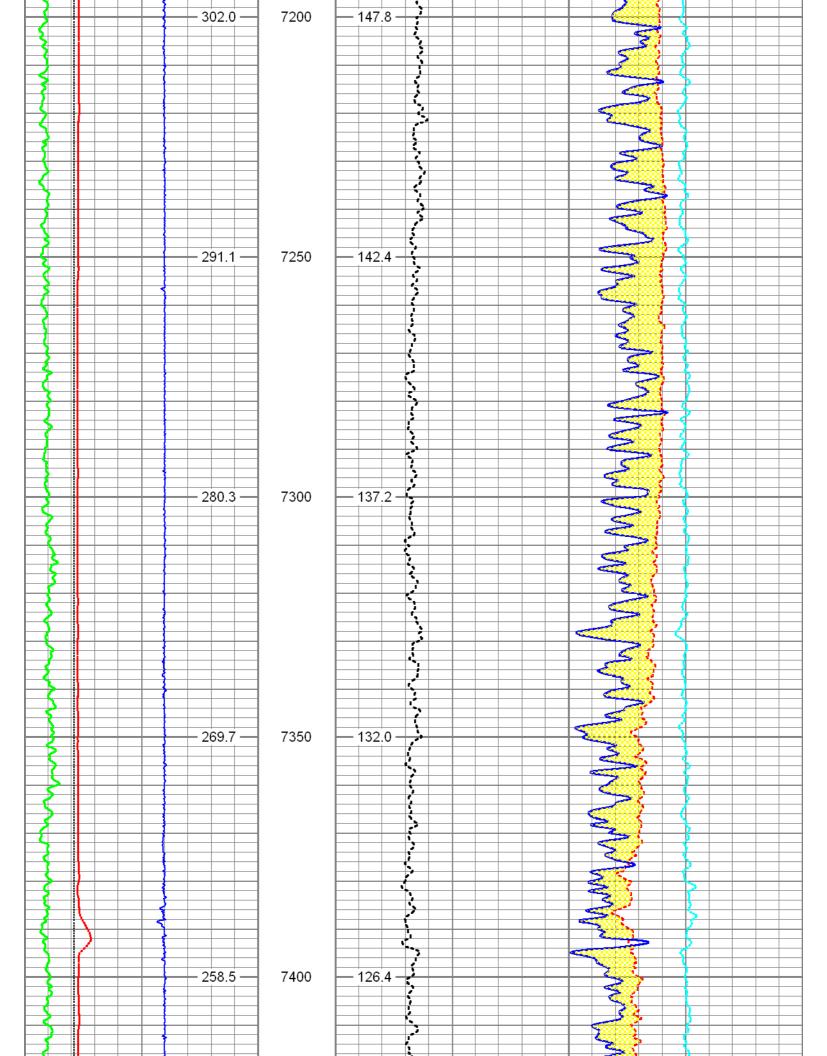


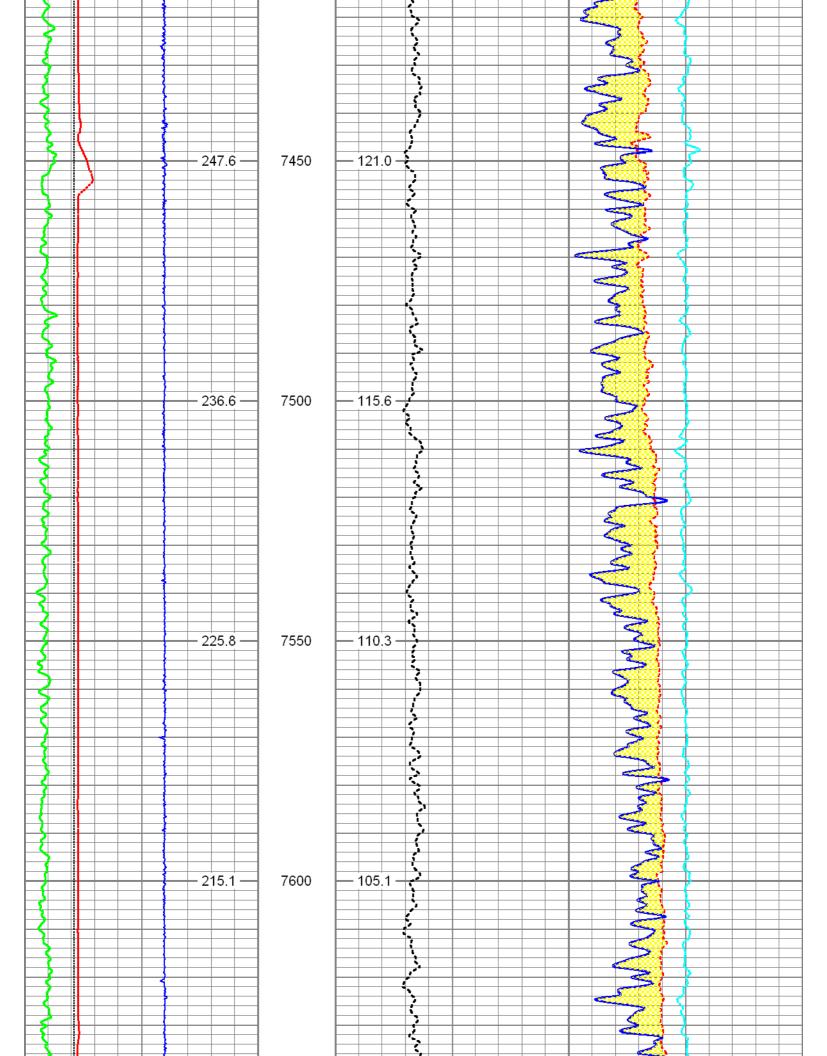


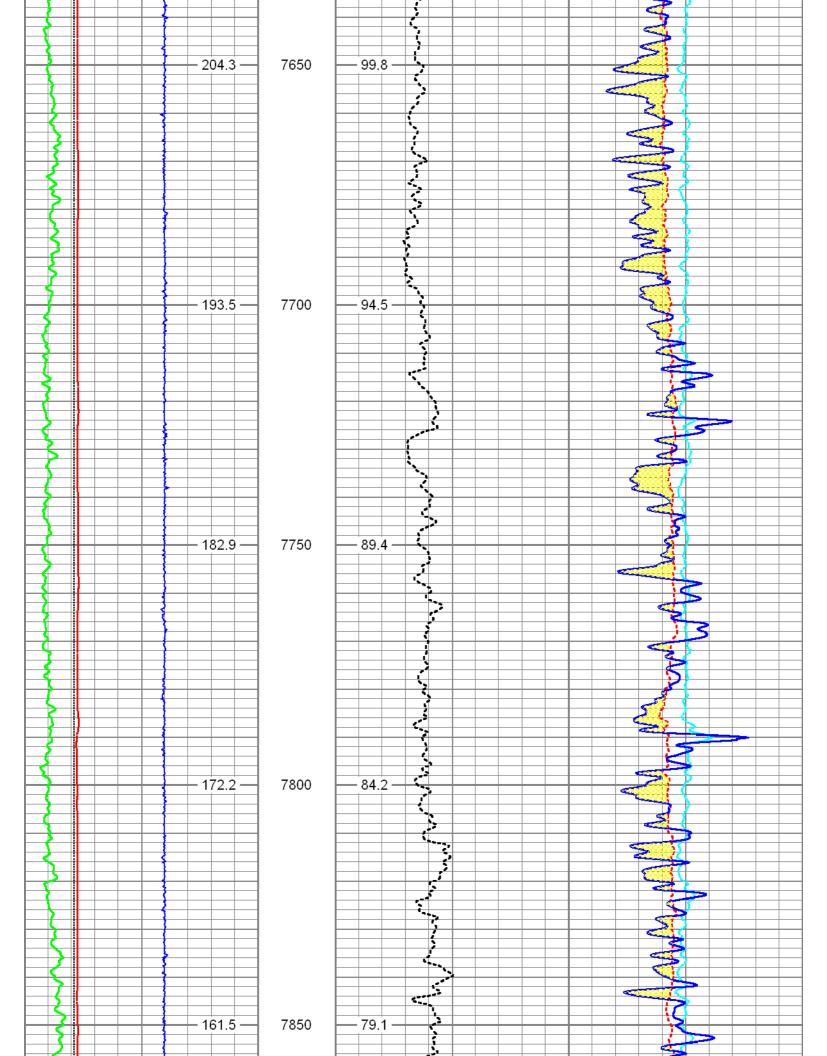


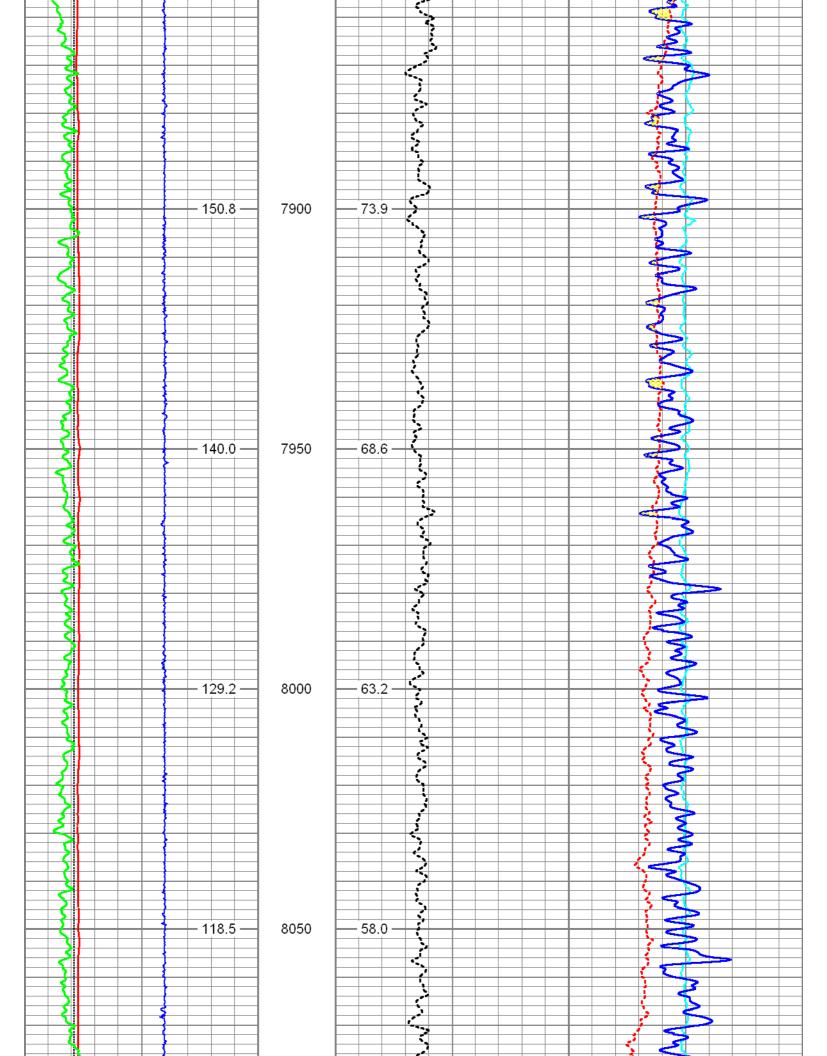


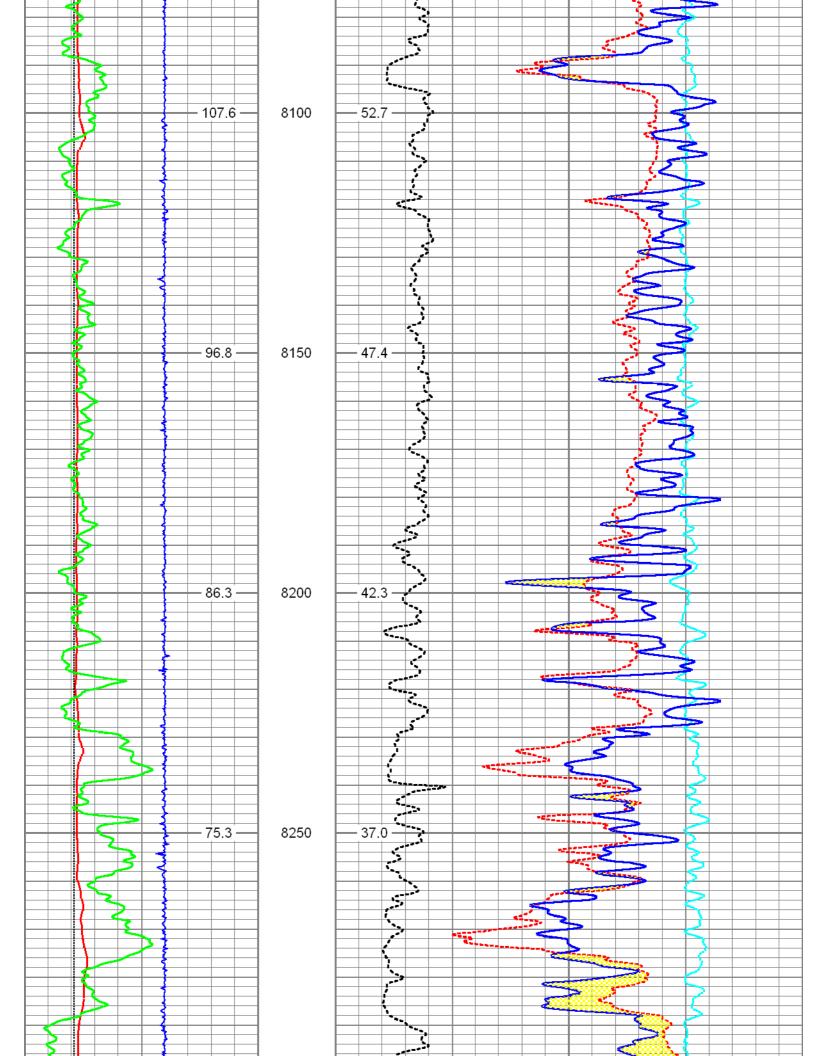


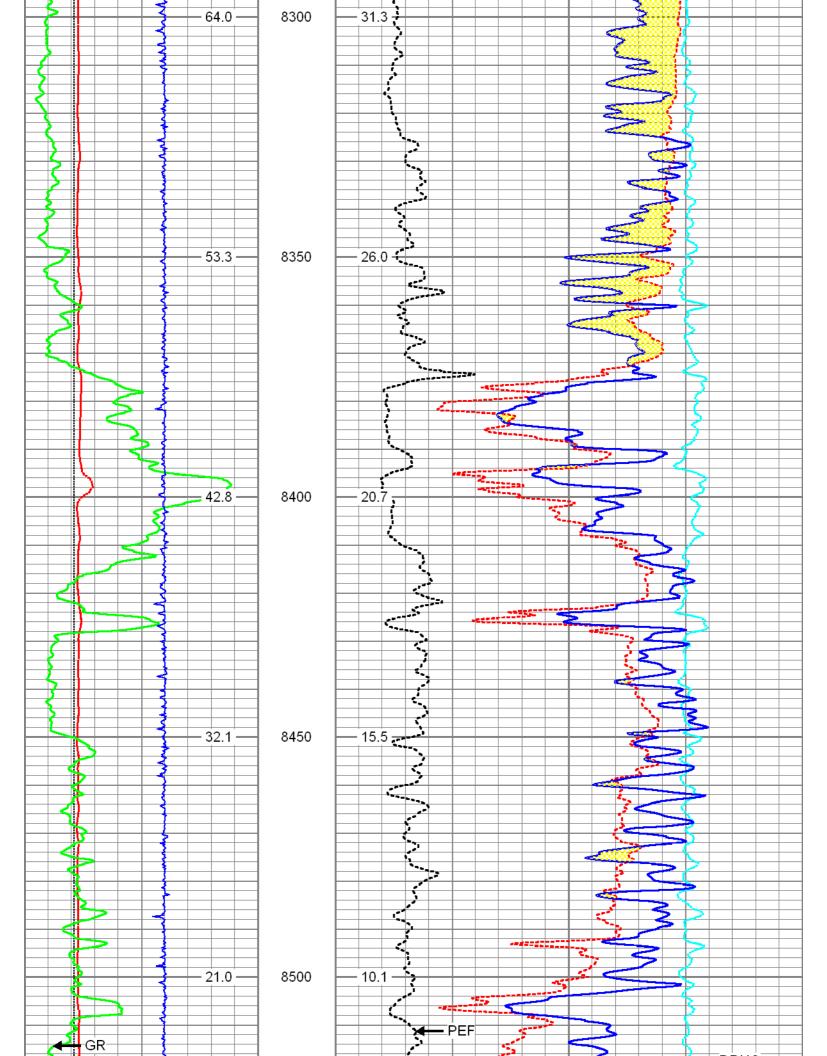


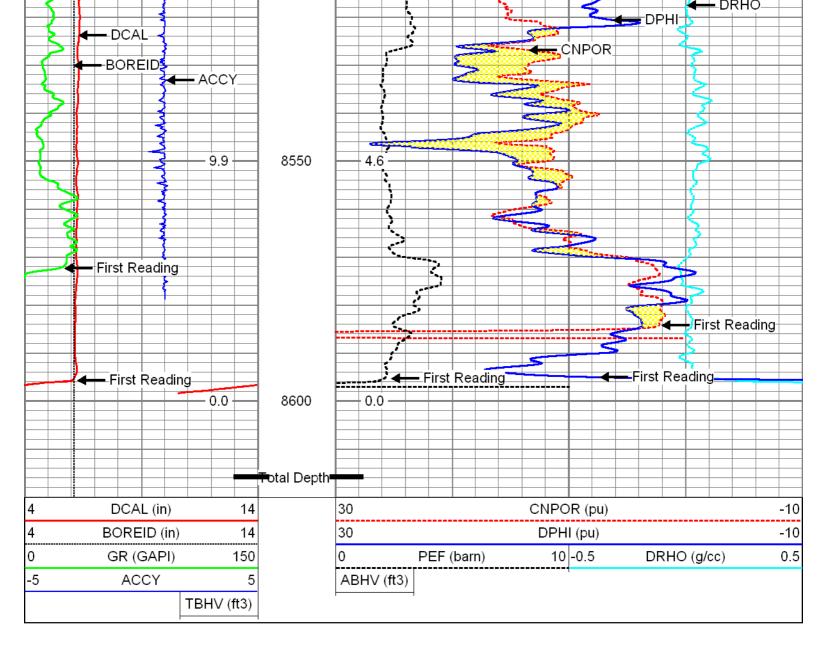












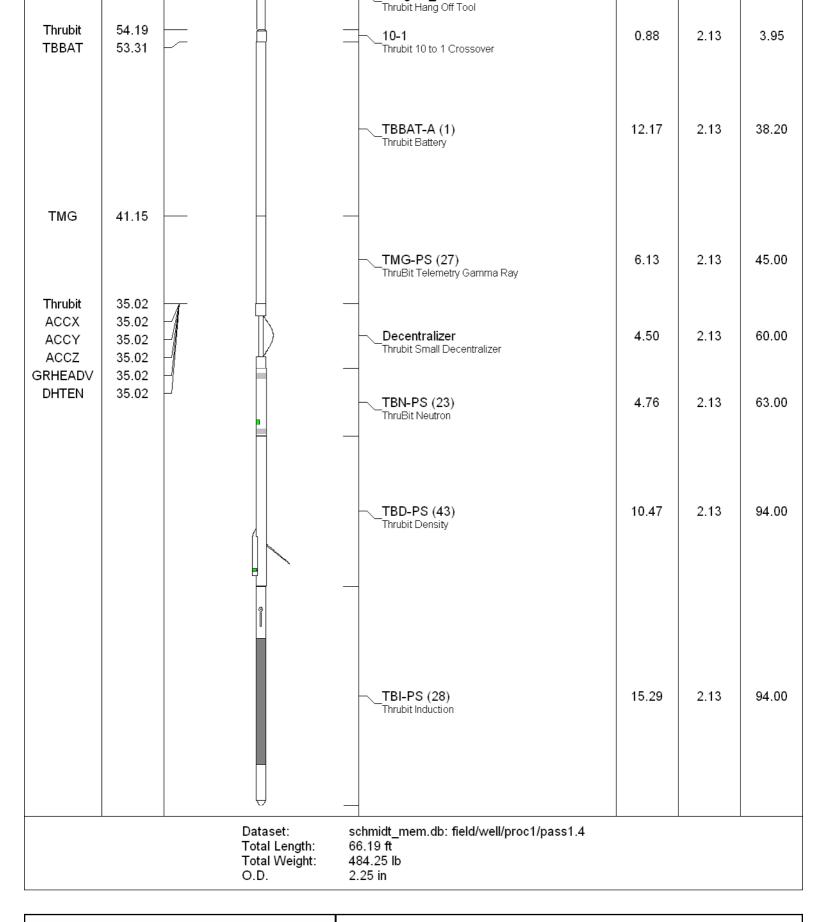
Log Variables Database:C:\Warrior\Data\schmidt_mem.db Dataset: field/well/proc1/pass1.4									
Top - Bottom									
A	BHCOR	BHFL_TYPE	BHIDSRC	BOREID in	BOTTEMP degF	CASED?			
1	On	WBM	CURVE	6.125	138	No			
CASEOD in	CASETHCK in	CEMWATERSA kppm	CMNTTHCK in	FLUIDDEN g/cc	FRMSALIN kppm	LATNOR			
4.5	0	0	0	1	0	Off			
М	MATRXDEN g/cc	MUDSALIN kppm	MudWgt lb/gal	NPORSEL	PERFS	RESTMPSRC			
2	2.71	1.2	8.4	Limestone	0	INTERNAL			
SO in	SRFTEMP degF	SZCOR	TDEPTH ft	TMPCOR	TOOLPOS				
0.5	65	On	8670	On	Free				

Database File: Dataset Pathname: Dataset Creation:	schmidt_mem.db proc1/pass1.4 Tue Sep 13 21:34	:19 2011					
ThruBit Induction Calibration Report							
	Serial-Model:		28-PS				
	Shop Calibration	Performed:	Sat Sep 03 11:16:18 2011				
BaseLine							
		R	Х				
Freq 1							
A1		-469.2690	242.8270				
A2		-139.1180	356.2730				
A3							
		-24.2833	103.6150				
A4		-14.2774	241.3390				
A5		-13.0893	121.8110				
Freq 2							
A1		-244.3640	128.1320				
A2		-90.6536	203.7130				
A3		-18.7401	16.1688				
A4		-17.5485	71.9563				
A5		-17.7948	-14.4559				
<b>F</b> rage 2							
Freq 3		450 0000	01.0570				
A1		-156.0320	21.3573				
A2		-70.1178	107.3870				
A3		-15.0995	-45.1136				
A4		-18.7864	-40.4596				
A5		-19.3813	-114.2380				
Freq 4							
A1		-84.6690	-146.4640				
A2		-50.7592	-18.2619				
A3		-13.1682	-136.4420				
A4		-22.5289	-207.0720				
A5		-25.4386	-280.4840				
Calibration Coeffi	cients						
		R	Х				
_							
Freq 1							
A1		0.9879	0.0034				
A2		0.9904	0.0043				
A3		0.9950	-0.0032				
A4		0.9867	0.0060				
A5		0.9878	0.0045				
Freq 2							
A1		0.9823	-0.0051				
A2		0.9842	-0.0040				
A3		0.9830	-0.0040				
A4		0.9823	-0.0023				
A5		0.9841	-0.0038				
Freq 3							
A1		0 9980	-0.0098				

A2 A3	1.0002 0.9986	-0.0087 -0.0089	
A4	0.9975	-0.0071	
A5	1.0003	-0.0087	
Freq 4			
A1	0.9920	-0.0022	
A2	0.9936	-0.0016	
A3 A4	0.9939 0.9935	-0.0036 -0.0004	
A4 A5	1.0025	-0.0037	
Temperature	34.7054		
	ThruBit Dens	sity Calibration Report	
Serial-Model:		43-PS	
Shop Calibrati	on Performed:	Sun Sep 11	20:39:05 2011
References			
	Density	Units	
Aluminium	2.602	g/cc	
Magnesium	1.715	g/cc	
Readings			
	Counts	Units	
SS1 Background	141.44	cps	
LS1 Background	146.61	cps	
LS4 Background	30.83	cps	
SS1 Aluminium	4203.29	cps	
LS1 Aluminium	857.60	cps	
LS4 Aluminium	953.05	cps	
SS1 Magnesium	6865.62	cps	
LS1 Magnesium	5300.34	cps	
LS1 AI + Fe	732.72	cps	
LS4 AI + Fe	420.95	cps	
Results			
SS Slope	1.76		
LS Slope	0.45		
PEF K Factor	3.360		
PEF B Factor	-0.106		
		leutron Calibration Rep	
	Serial Number Tool Model:		23 PS
	Source Numbe	er:	ΓU
		nk Temperature:	0.0 degF
BACKGROUND MEASURE	MENT		
	SS Counts	LS Counts	

	0.0		0.0			
WATER TANK REFERENCE		Sun Sep 1	11 19:08:54 2011			
	SS Co	ounts	LS Counts			
	0.0	cps	0.0	cps		
	Tank Ratio Ref		Tank Ratio Tank Ratio Gain		Gain	
	30.95	80 SS/LS	30.1831	SS/LS	1.0257	
ALUMINUM SLEEVE REFERENCE						
	SS Counts		LS Coun	ts		
	0.0	cps	0.0	cps		
	Al Rat	tio Ref	Al Ratio		Al Ratio G	ain
	0.000	SS/LS	0.000	SS/LS	1.01	
	Sleev	e Porosity				
	0.00	pu				
	Ga	amma Ray Cali	bration Re	eport		
Serial Number: Tool Model: Performed:	Tool Model: PS			)11		
Calibrator Value:	166.3		GAP	I		
Background Reading: Calibrator Reading:		76.5 438.4	cps cps			
Sensitivity:		0.3750	GAP	l/cps		
Inclinometer Calibration Report						
Performed: Sun	Performed: Sun Jun 13 14:33:21 1993					
Low	Read.	High Read.		Low Ref.	High Ref.	
X Accelerometer 0.00		1.00		0.00	1.00	gee
Y Accelerometer 0.00		1.00		0.00	1.00	gee
Z Accelerometer						

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
Thrubit	66.19	⊢ <u> </u>	─∖ WPhead	1.58	2.13	5.15
Thrubit	64.61	┝~ 퉈 ┤	Weak Point Cable Head			
Thrubit	63.73		<b>10-1</b> Thrubit 10 to 1 Crossover	0.88	2.13	3.95
Thrubit	59.19		Small_Release Thrubit Small Release Tool	4.54	2.13	42.00
			- HangOff Tool	5.00	2.25	35.00





CompanyCHESAPEAKE OPERATING, INC.WellSCHMIDT 3-34-4 1HFieldSUMNER PROJECT/MISSISSIPPI LIMECountySUMNERStateKS