### KOLAR Document ID: 1311151

Confider	tiality Requested:
Yes	No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

# WELL COMPLETION FORM

WELL	HISTORY -	DESCRIPT	FII &	
VVELL	<b>HISIONI</b> -	DESCRIPT		LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
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: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (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:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
_	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Courd Date or Date Deschool TD Courd Life D 1	QuarterSec TwpS. R East West
Spud Date or         Date Reached TD         Completion Date or           Recompletion Date         Recompletion Date	County: Permit #:

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

## Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

#### KOLAR Document ID: 1311151

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Take			<u> </u>	/es 🗌 No	1		L	og Forn	nation (Top), De	pth and	d Datum	Sample
(Attach Additiona				(		N	lame	<del>)</del>			Тор	Datum
Samples Sent to Ge Cores Taken Electric Log Run Geologist Report / M List All E. Logs Run:	Aud Logs	vey		∕es ∟ Νο ∕es □ Νο ∕es □ Νο ∕es □ Νο	1							
			Rep	CASI ort all strings	NG RECO		Nev		duction, etc.			
Purpose of String		ze Hole Drilled	Si	ze Casing et (In O.D.)		Weight _bs. / Ft.		Setting Depth	Type o Cemei		# Sacks Used	Type and Percent Additives
Purpose:		Depth	Turo	ADDITIO e of Cement		NTING / S		EEZE RECC		and Pa	ercent Additives	
Perforate Top Bottom			тур	e of Cement	#0				туре	anu re	Acent Additives	
Protect Casing Plug Back TD Plug Off Zone												
<ol> <li>Did you perform a h</li> <li>Does the volume of</li> <li>Was the hydraulic fractional first Production</li> </ol>	the total base acturing treat	e fluid of the hy ment informat	ydraulic fi ion subm	acturing treat	emical disclo		stry?	Gas Lift	No (If	No, skip No, fill c	o questions 2 an o question 3) out Page Three o	
Estimated Production Per 24 Hours	1	Oil B	bls.	Gas	Mcf	,	Wate	r	Bbls.	Ga	as-Oil Ratio	Gravity
DISPOSIT	TION OF GAS	8:			METHO		1PLE	TION:			PRODUCTIC Top	N INTERVAL: Bottom
Vented Sold Used on Lease Open Hole (If vented, Submit ACO-18.)		Perf.		-	Comp ACO-5)	Commingled (Submit ACO-4)		100				
Shots Per         Perforation         Perforation         Bri           Foot         Top         Bottom         Bri		Bridge Plug Type		e Plug t At		,	Acid, Fracture, Sho (Amount ar		enting Squeeze of Material Used)	Record		
TUBING RECORD:	Size:		Set At:		Packer	At:						

Form	ACO1 - Well Completion
Operator	Triple Crown Operating LLC
Well Name	Barricklow 1-33
Doc ID	1311151

All Electric Logs Run

Micro
Dual Induction
Cement Bond
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Triple Crown Operating LLC
Well Name	Barricklow 1-33
Doc ID	1311151

# 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	24	512	Common	3% CC 2% Gel
Production	7.875	5.5	17	4478	Common	10% Salt 5% Gilsonite

#### ENTING, INC. QUALITY OI Federal Tax I.D.# 20-2886107 No. 1719 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 Finish On Location State County Range Sec. Twp. $\leq$ D VOSS Date +-21 3 II. 20 Location w/s Barricklow 5 4 # 5 Well No Owner Lease To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish Contractor cementer and helper to assist owner or contractor to do work as listed. Type Job Charge owr T.D. Hole Size To Depth Street Csq \$1 State Depth City Tbg. Size The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool C Cement Amount Ordered 00 MO. Cement Left in Csg. Shoe Joint JII 50 Meas Line Displace SP EQUIPMENT Common S Cementer No. 8 Poz. Mix Pumptrk Helper Driver Driver No. Gel. Bulktrk Driver No. Calcium Balktrk Driver **JOB SERVICES & REMARKS** Hulls 4 Salt -**Remarks:** Flowseal 10070 Rat Hole RP Kol-Seal 2 400 Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets Dord Sand D/V or Port Collar Handling SX 570 Mileage FLOAT EQUIPMENT Guide Shoe Centralizer SODY Baskets **AFU Inserts** Float Shoe Latch Down Pumptrk Charge aueer-Mileage Tax Discount **Total Charge** X Signature

		đ.
redera	ELL CEMENTING, INC. al Tax I.D.# 20-2886107 P.O. Box 32 Russell, KS 67665 No. 1714	ŀ
Date 6 - 11 - 16 Sec. Twp. Range 33 20 22	County KState On Location Finis Ness K5 01 Location 11:30	in D Ar
Lease Barricklow Well No. 1-3 Contractor W W 12 Type Job Buttom	Location Ness City 115 to 20Rd, 6E to 3 Owner 15 IE 1/45 W15 To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as list	ZF
Hole Size 77/8" T.D. 44801 Csg. 56 New 17# Depth 4480.15	Street	<u> </u>
Tbg. SizeDepthToolDUToolUDuToolUCement Left in Csg.DO. 81Shoe Joint20,81	City     State       8 <sup>1</sup> The above was done to satisfaction and supervision of owner agent or cont       1     Cement Amount Ordered	tractor
Meas Line Displace 103 1/2 Bi 71 1/2 under EQUIPMENT 32 mid	LS GALSomete - 500 gal Mud Clear 48 20 BL 1 common/75	KUL
Pumptrk JO No. Helper Joeth Bulktrk JS No. Driver The Bulktrk D. M. Driver The Bulktrk D. M. Driver The	Poz. Mix Gel. Calcium	A 30
JOB SERVICES & REMARKS Remarks: Rat Hole	Hons KCH 2 gl Salt 15	
Mouse Hole         GOSA           Centralizers         1,3,5,8,11,15,23,72	Flowseal Kol-Seal 875# Mud CLR 48	
Baskets 6, 24, 73 Mor Port Collar 73 1378, 28 Pipe on bottom breat Cir	CFL-117 or CD110 CAF 38 500 gel Sand	
plump 500 gal mud Clear i min 145 SX Coment. Sh	18 Mileage	-
Released plug Displayed up	Guide Shoe       D     Centralizer       Baskets     2 Red	
Lift pressure 600 # Lend plug to 1900 #	AFU Inserts Float Shoe Latch Down	
Break Circulation	# DUTED WI lotch dawn Plucy Pumptrk Charge grad String Botom Stary	
	Mileage / 8	
X Signature	Discount Total Charge	

Date 6-11-16 33 Lease Barrie	Twp. Range		
Lease Barrie	194 94	County State On Location	3;15pv
Lease DQ(C)	v1	Location Ness City 115 to 20RI, 6E to	o Z Rd
	KIOW Well No. 1-	33 Owner 15, 1E, 145 W/S'	
Contractor WW 12		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment a	Ind furnish
Type Job Jop Jt	qqe	cementer and helper to assist owner or contractor to do w	vork as listed.
Hole Size 7.78	17. 4480	To Triple Crown operating	UC
Csg. 5/28 174	Depth 44 80, 15	Street	
Tbg. Size	Depth	City State	
Tool DU. Tool	Depth 1378,2	The above was done to satisfaction and supervision of owner ag	ent or contractor
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered 250 2 MDC /	g#Floss
Meas Line		LS 201	
No. Cementer	MENT	Common 250	
Pumptrk ) O <sup>No.</sup> Cementer Helper	tim	Poz. Mix	
Bulktrk Driver	rue	Gel.	
Bulletrik D. U.No. Driver	tàt I	Calcium	
JOB SERVICES	& REMARKS	Hulls	
Remarks:		Salt	
Rat Hole	4	Flowseal 62 H	
Mouse Hole		Kol-Seal	
Centralizers	9	Mud CLR 48	
Baskets	<ul> <li>1.</li> </ul>	CFL-117 or CD110 CAF 38	
DMpr Port Collar 173	1378,28	Sand	
Sentence & second as a sufficient		Handling 250	
lipe on bottom	, break Circula	tion Mileage	
mis 250 5x	Cement.	FLOAT EQUIPMENT	
Released plug 4	Displaced	Guide Shoe	
N 32 BLS 1 HZ	D.	Centralizer	
		Baskets	
Closed tool us	200 #	AFU Inserts	
		Float Shoe	
Lift pressure	500 #	Latch Down	
wash ip 4 Kir	need down		
1	JJ	Pumptrk Charge prod String Top Stag	0
ements did (	inulate	Mileage/3	<u>[</u>
		inition gov of the second seco	
Server Miles		Tax	the second second

QUAL	TY	OILW	ELL C	CEMEN	ITIN	G. IN	IC.
Phone 785-483-2025 Cell 785-324-1041	a , 2	rede	ral lax I.D.#	20-2886107 Russell, KS 67	0.3	No	
Sec	. Twp.	Range	County	State		On Location	Finish
Date 6 - 2 - 16 33	20	22	Ness	15			10:45
N	-	Э	Location Ne	39 City 1	15 to Ro	+20 7E	to Z Ro
Lease Barricklow		Well No. 1-3	3 Owner			IS IE	145 W
Contractor WW12			To Quali	ty Oilwell Cementin	ng, Inc.		
Type Job Sur Force	-		cemente	hereby requested t r and helper to ass	ist owner or a	contractor to d	it and furnish lo work as liste
Hole Size 12 14	T.D.	5/3	Charge To	Triole Cr	ave O	peratin	6 Trues
Csg. 8 5/8	Depth (	513'	Street		7	v v	1
Tbg. Size	Depth		City		State	9	
Tool	Depth			e was done to satisfa			r agent or contra
Cement Left in Csg. 25'	Shoe Jo	int		Amount Ordered	250 8		6 cc 2%
Meas Line	Displace	3/66	1				
	MENT		Common	200 175	L.		
	rett		Poz. Mix	50 75			
Bulktrk (9 No. Driver ()	Dig		Gel.	5			24
Bulktrk No. Driver Do	ing		Calcium	10		n i li li	1
JOB SERVICES	& REMAR	IKS	Hulis				
Remarks:			Salt			20	
Rat Hole	an ta sa		Flowseal				
Mouse Hole			Kol-Seal				-
Centralizers	with the part		Mud CLR	48	ы		
Baskets	9.4		CFL-117	or CD110 CAF 38			
D/V or Port Collar	-		Sand		á		
getterstand internal in the state			Handling	265		3	
<u></u>			Mileage	~~~			
Cement				FLOAT EQU	JIPMENT	and the second s	
		and the second	Guide Sh	00			
(			Centralize	er			
- Urco	late		Baskets			i¥	
( a	and the second second		AFU Inser	ts			
			Float Sho	9	A. / E		
			Latch Dov				
	E.					-	
	$\Theta$		Pumptrk C	harge Long	Surfa	or	×.
			Mileage	255 21	- was no		
5 E E E				01		Tax	
001	A	28 B				Discount	
ignature Callfant	20				-	otal Charge	and the second se

		OPERATOR		
	Company: Address:	Triple Crown Operating		
	Contact Geologist: Contact Phone Nbr:	Rod Andersen 316-204-3359		
	Well Name:	Barricklow #1-33		
	Location: API:	1440 FNL_1200 FEL 33-20-22		
	Pool: State:	Infield Kansas	Field: Country:	Barricklow USA
ſ				
		Scale 1:240 Imperial		
	Well Name: Surface Location:	Barricklow #1-33 1440 FNL _1200 FEL 33-20-22		
	Bottom Location: API:			
	License Number:	6/0/0046	<b>T</b> ime	10.00 444
	Spud Date: Region:	6/2/2016	Time:	12:00 AM
	Drilling Completed: Surface Coordinates:	6/10/2016	Time:	12:00 AM
	Bottom Hole Coordinates:	2170.004		
	Ground Elevation: K.B. Elevation:	2179.00ft 0.00ft		
	Logged Interval: Total Depth:	0.00ft 4480.00ft	To:	0.00ft
	Formation:	Mississippian		
L	Drilling Fluid Type:	Chemical/Fresh Water Gel		
ſ		SURFACE CO-ORDINAT	ES	
	Well Type: Longitude:	Vertical		
	Latitude:			
	N/S Co-ord: E/W Co-ord:			
ſ		LOGGED BY		
	Company:	Eurypterid LLC		
	Address:			
	Phone Nbr: Logged By:	316-204-3359 Geologist	Name:	Rod Andersen
	Lögged by.	Geologist	indirie.	Rou Andersen
	Contractor:	CONTRACTOR WW Drilling		
	Rig #:	12		
	Rig Type: Spud Date:	mud rotary 6/2/2016	Time:	12:00 AM
	TD Date:	6/10/2016	Time:	12:00 AM
	Rig Release:		Time:	
		ELEVATIONS		
	K.B. Elevation: K.B. to Ground:	0.00ft Groun 8.00ft	nd Elevation:	2179.00ft
ſ		NOTES		

#### **Oll Show**

- Good Show Fair Show
- Poor Show
- Spotted or Trace
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence
- + Gas

DST 🜌 DST Int 📕 DST alt 🛃 Core II tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca) TG, C1 - C5 Curve Track #1 ROP (min/ft) Total Gas (units) Depth | Intervals Gamma (API) Cal (In) C2 (units) Lithology Oil Show C3 (units) DST C4 (units) **Geological Descriptions** Cored Interval DST Interval 1:240 Imperial 1:240 Imperial ROP (min/ft) 10 fotal Gas (units) Gamma (API) 150 C1 (units) Anhydrite with lime stringers and gypsum Cal (in) 16 C2 (units) C3 (units) C4 (units) 2220 2240 2260 2280 Chase Group Herrington 2284 -97 Dol. gy succrosic vis pos yellow flor 2300 Krider 2300 - 155 Dol brn succrosic vis por yellow flor 2320 2340

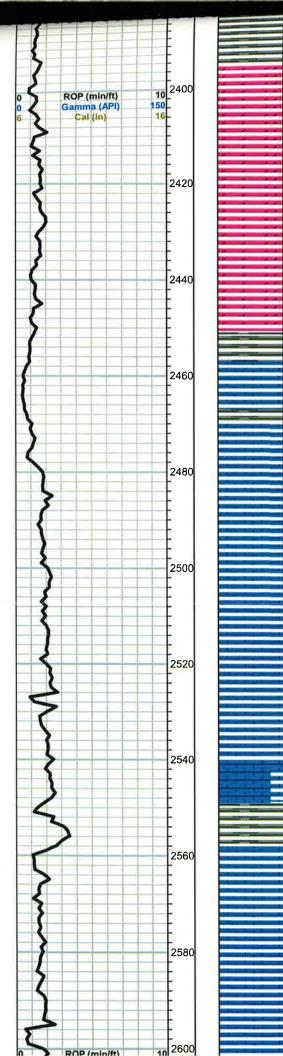
100

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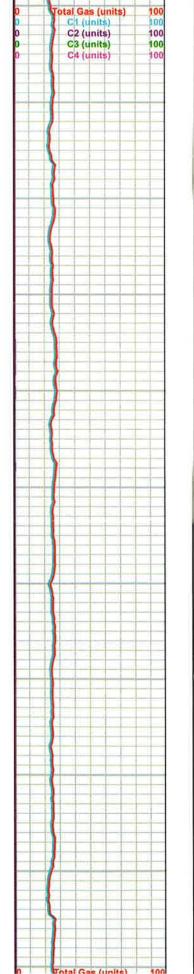
Winfield 2342 -155 Dol brn succrosic vis pos yellow flor

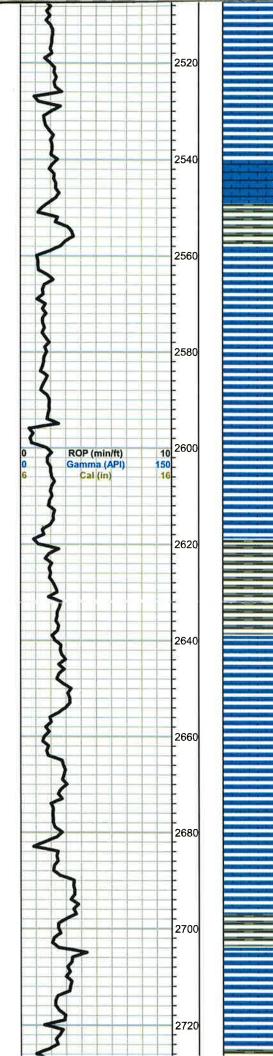




Sh gy

Sh gy





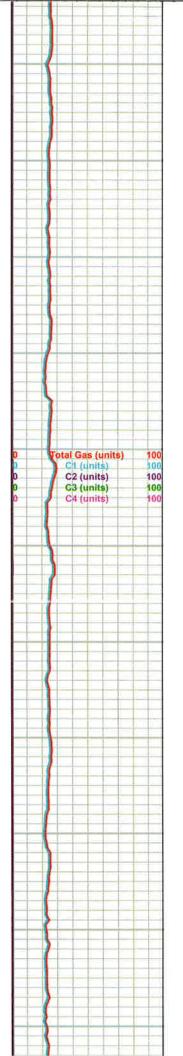


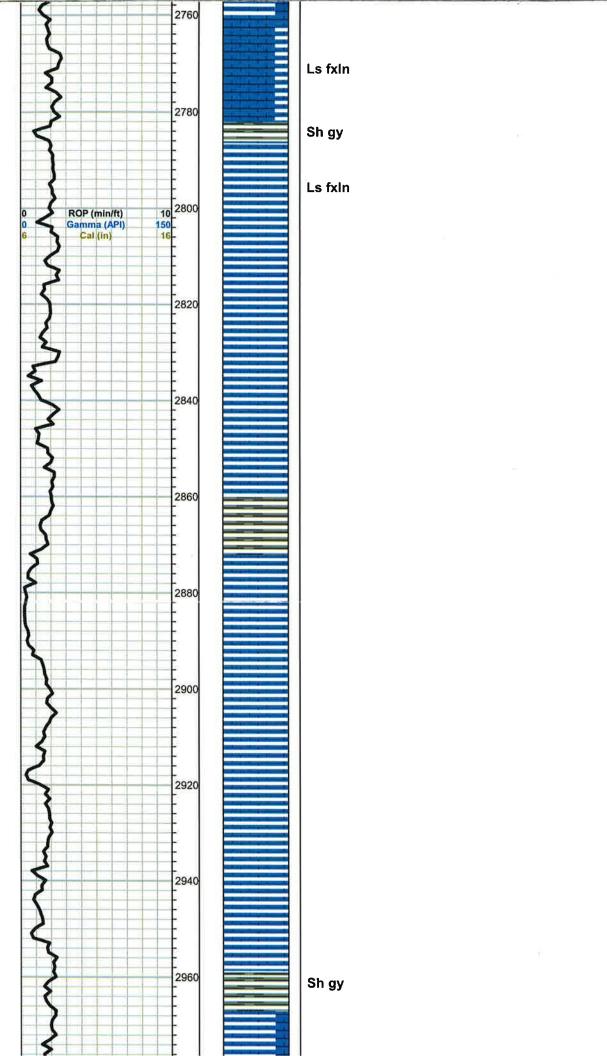
Ls fxln

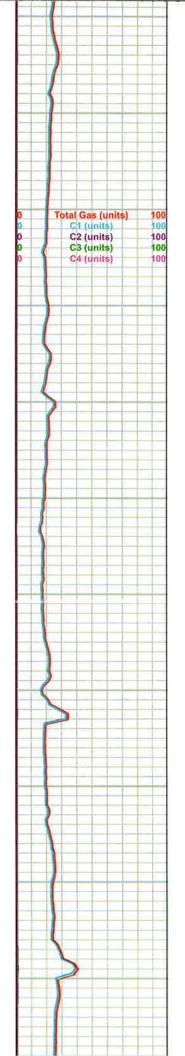
Ft Riley 2460 -273 Ls crm-tan cxln vis por yellow flor

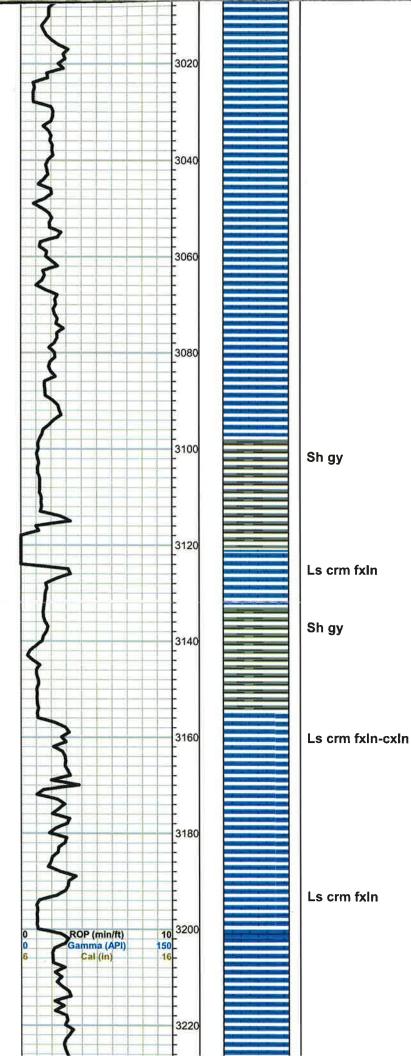
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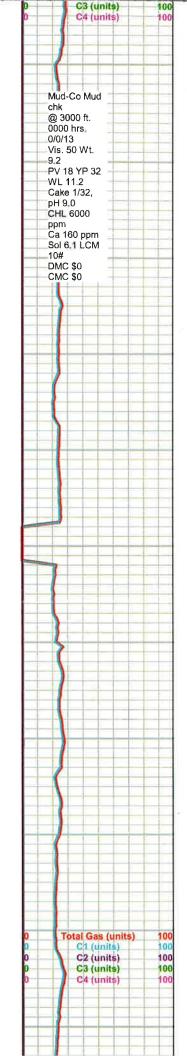
Ls tan fxln

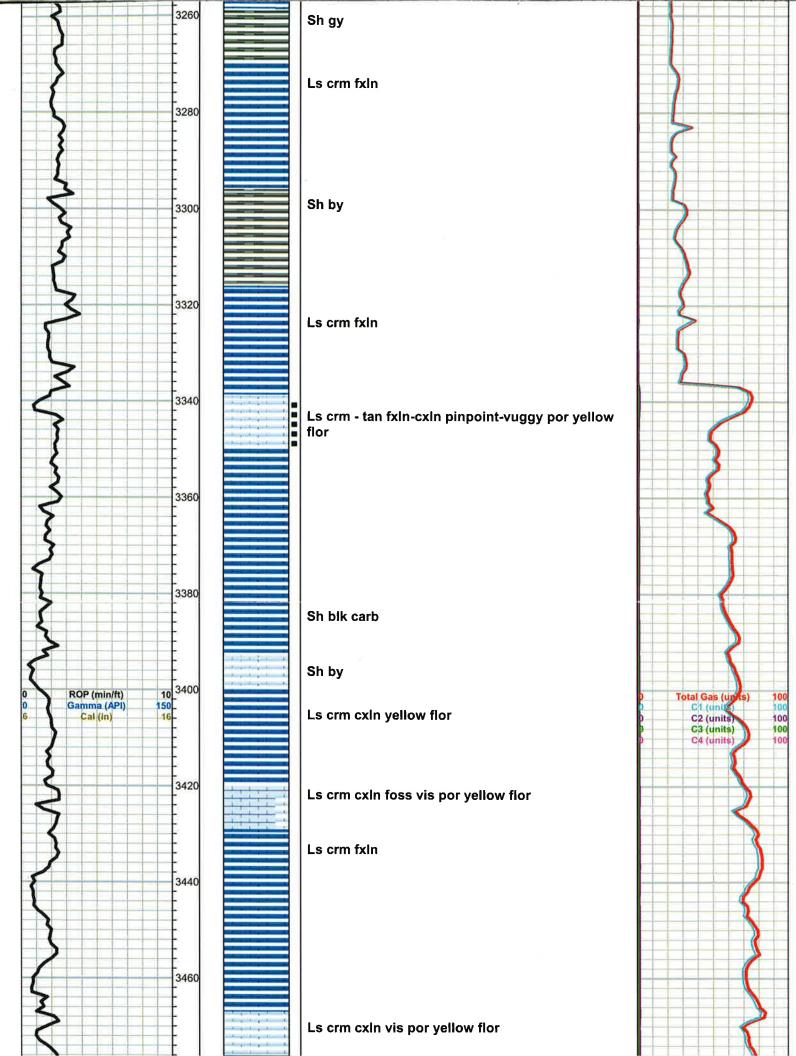


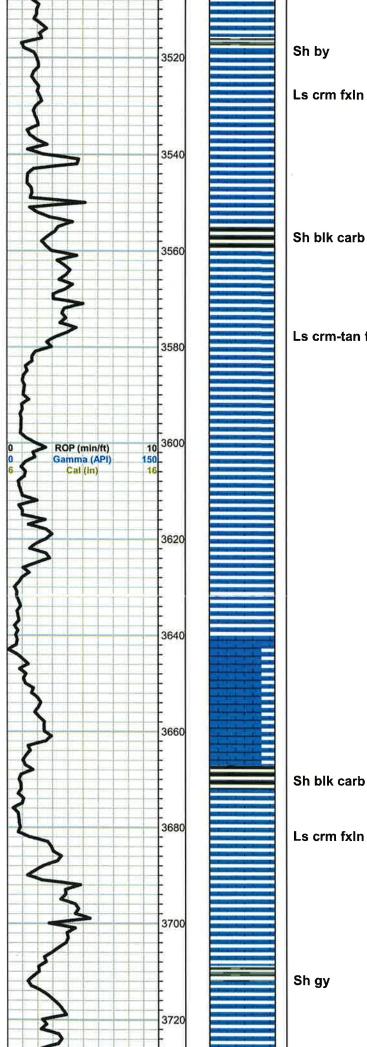


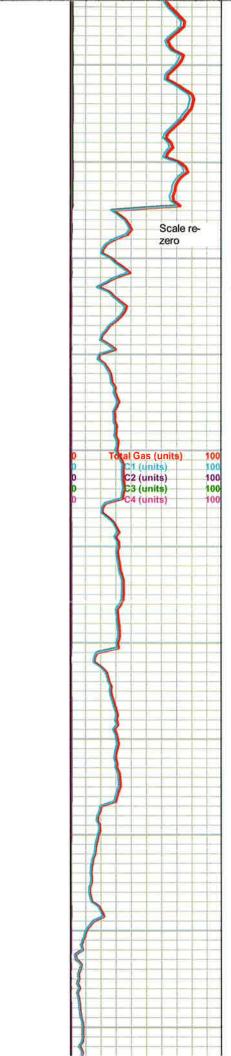












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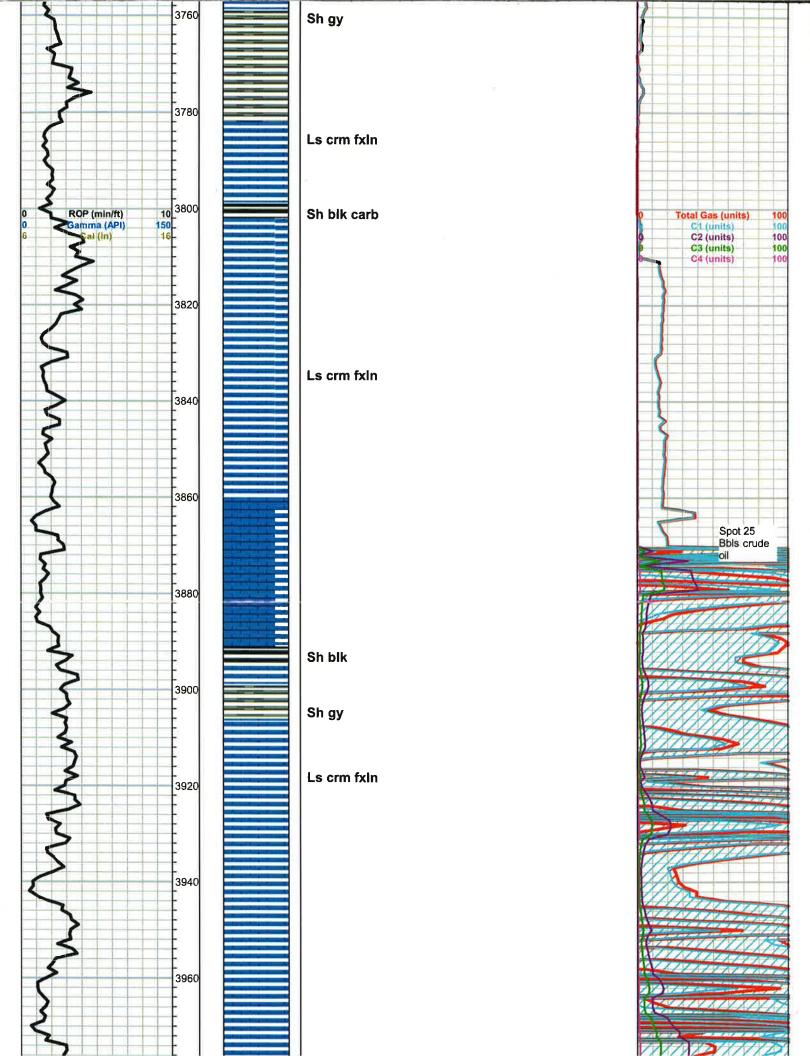
Ls crm fxin

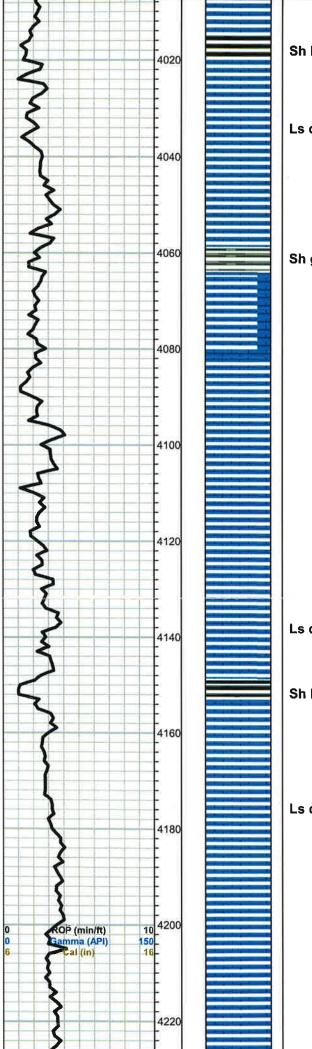
Ls crm-tan fxIn

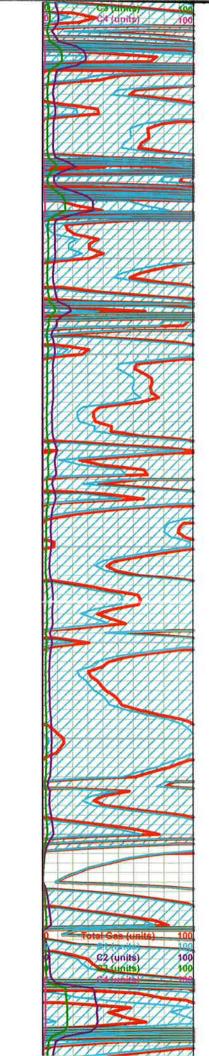
Sh blk carb

Ls crm fxln

Sh gy







Sh blk carb

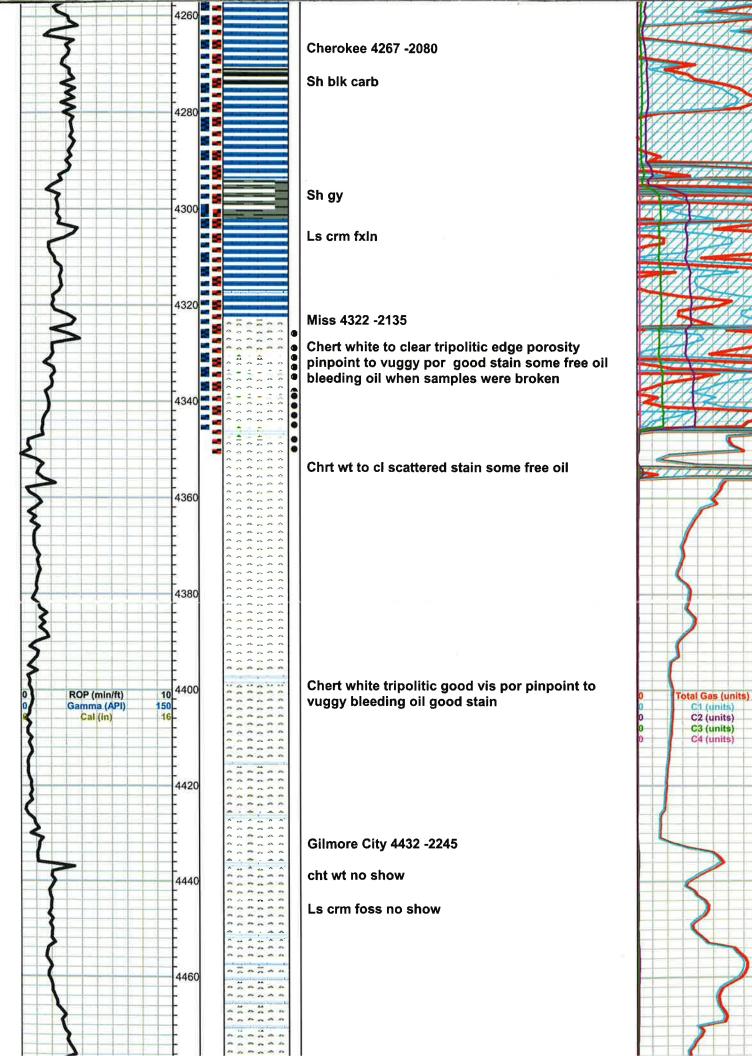
Ls crm fxln

Sh gy

Ls crm fxln

Sh blk

Ls crm fxln



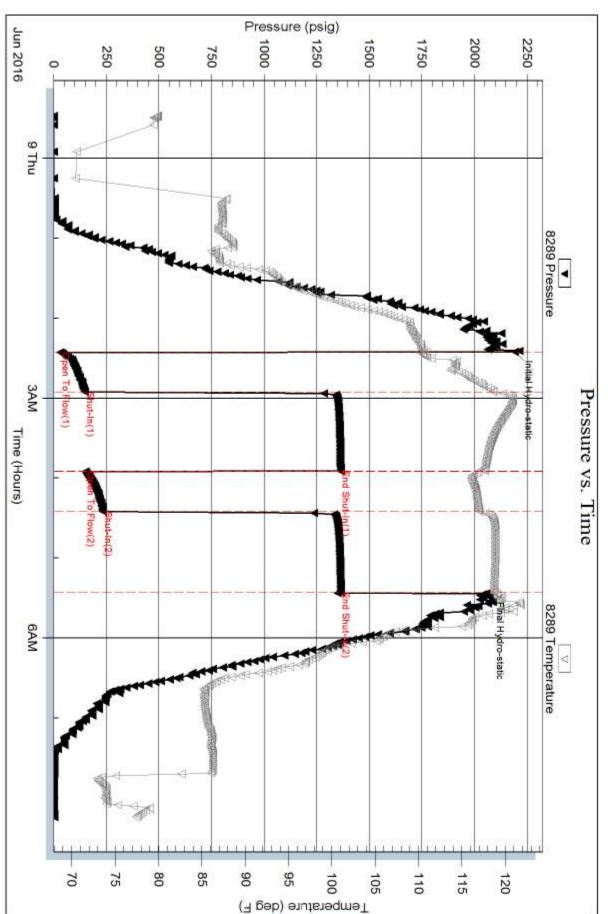
RILOBITE	DRILL STEM TES	ST REP	ORT				
	Triple Crow n Operating LLC		33	20s 22w	Ness, K	S	
ESTING ,	22010000011010100		Ba	rricklow	#1-33		
	Tulsa OK 74114-7099		Job	Ticket: 64	1929	DST	#: 1
NOX.	ATTN: Rod Anderson		Tes	t Start: 20	016.06.08	@ 23:28:0	0
GENERAL INFORMATION:							
Formation:MississippianDeviated:NoWhipstoTime Tool Opened:02:25:30Time Test Ended:08:14:00	k: ft (KB)		Tes Tes Unit	ter:	Conventio Jim Svaty 76	nal Bottom	Hole (Initial)
Total Depth: 4346.00 ft (KB	<b>4346.00 ft (KB) (TVD)</b> (TVD) Hole Condition: Fair		Refe	erence Ele KB t	evations: to GR/CF:	2181.	.00 ft (KB) .00 ft (CF) .00 ft
30-FFP- BO	08 End Date: 02 End Time: in 15min. n. Blow Died in 29min.	2016.06.09 08:14:15	Capacity Last Calil Time On Time Off	b.: Btm: 2		8000. 2016.06. 9 @ 02:25: 9 @ 05:26:	:15
	vs. Time	1	PF	RESSUE		MARY	
2270		Time	Pressure	Temp	Annota		
		(Min.) 0	(psig) 2191.73	(deg F) 110.89	   Initial Hyd	tro-static	
	115	1	32.32	110.03	-		
1750		30	148.46	118.57	-		
	105 For the set () and the set () and ()and () and ()	90	1364.76		End Shut		
1000		90 120	151.93		Open To	• •	
1000		120 181	233.30 1365.39	117.00 118.70		,	
700 500 200 97bu 394		182	2057.05	118.97	Final Hyc		
Recov	ery		ļļ	Ga	s Rates		
Length (ft) Descriptio	Volume (bbl)			Choke (i	nches) Pres	sure (psig)	Gas Rate (Mcf/d)
250.00 GMCO 10%g 40%m	50%o 2.40			4	······		
250.00 GMCO 30%g 30%m	40%0 3.51						
65.00 Free Oil 100%	0.91						
0.00 180 GIP	0.00						
	ļ						

10h		DRI	LL STEM TEST REPORT	Γ		FLUID SUMMAR
単き	TRILOBITE	Triple C	Crow n Operating LLC	33 20s 22	w Ness,KS	
	ESTING , INC		Utica Pl Ste 100	Barricklo	w #1-33	
		Tulsa (	DK 74114-7099	Job Ticket: (	64929	DST#:1
<b>V</b> 57		ATTN:	Rod Anderson	Test Start: 2	2016.06.08 @ 23	3:28:00
lud and Cu	ushion Information	<u> </u>				
ud Type: G	el Chem		Cushion Type:		Oil API:	37 deg API
ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
iscosity:	60.00 sec/qt		Cushion Volume:	bbl		
ater Loss:	7.60 in <sup>3</sup>		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: lter Cake:	7500.00 ppm 2.50 inches					
ecovery In	nformation					
			Recovery Table		_	
	Leng ft		Description	Volume bbl		
		250.00	GMCO 10%g 40%m 50%o	2.40	5	
		250.00	GMCO 30%g 30%m 40%o	3.50	-	
		65.00	Free Oil 100%	0.91	-	
		0.00	180 GIP	0.00	0	
	Total Length:	565	.00 ft Total Volume: 6.824 bbl			
	Num Fluid Sam Laboratory Nar Recovery Com	ne:	Num Gas Bombs: 0 Laboratory Location:	Serial #		

Printed: 2016.06.09 @ 09:26:50

Ref. No: 64929

Trilobite Testing, Inc



Serial #: 8289

Outside Triple Crow n Operating LLC

Barricklow #1-33

DST Test Number: 1

	DRILL STEM TES	ST REP	ORT		
	Triple Crow n Operating LLC		33 209	s 22w Ness	
ESTING , M	22010 000011010 100		Barrio	cklow 1-33	
	Tulsa OK 74114-7099		Job Tic	ket: 64930	DST#: 2
	ATTN: Rod Anderson		Test St	art: 2016.06.0	9 @ 16:42:00
GENERAL INFORMATION:	•				
Formation:MissDeviated:NoWhipstockTime Tool Opened:19:14:00Time Test Ended:03:23:00	ft (KB)		Test Ty Tester: Unit No	Jim Svat	tional Bottom Hole (Reset) y
Total Depth: 4351.00 ft (KB)	<b>4351.00 ft (KB) (TVD)</b> TVD) ble Condition: Fair		Referer	nce Elevations KB to GR/CF	2181.00 ft (CF)
Serial #: 8789InsidePress@RunDepth:1247.22 psilStart Date:2016.06.0Start Time:16:42:0TEST COMMENT:30-IFP- BOB in 60-ISIP- No Bli 30-FFP- BOB 60-FSIP- No Bli	<ul> <li>End Date:</li> <li>End Time:</li> <li>45sec.</li> <li>w</li> <li>n 45sec.</li> </ul>	2016.06.10 03:23:13	Capacity: Last Calib.: Time On Btm Time Off Btn		8000.00 psig 2016.06.10 .09 @ 19:13:13 .09 @ 22:14:58
Pressure v		1		SSURE SUN	
(100) of the second sec	579 Imposise 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time (Min.) 0 1 30 91 91 121 181 182	Pressure         T           (psig)         (d           2098.20         1           519.84         1           990.28         1           1314.23         1           1042.06         1           1247.22         1           1326.91         1	Temp         Anno           leg F)         08.76         Initial H           08.21         Open <sup>-1</sup> 26.32         Shut-Ir           23.84         End Sh           23.58         Open <sup>-1</sup> 24.90         Shut-Ir           22.87         End Sh	hydro-static To Flow (1) h(1) hut-In(1) To Flow (2)
Recover				Gas Rate	
Length (ft)         Description           496.00         Water 100%	Volume (bbl) 5.86			Choke (inches) P	Pressure (psig) Gas Rate (Mcf/d)
496.00         Water 100%           372.00         MOCW 5%M 10%O 85					
1178.00 GWCO 10%G 25%W					
434.00 GMWCO 20%G 10%M					
464.00 OCM 40%O60%M	6.51				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 64930			rinted: 2016.06	A A A A 7:00:50

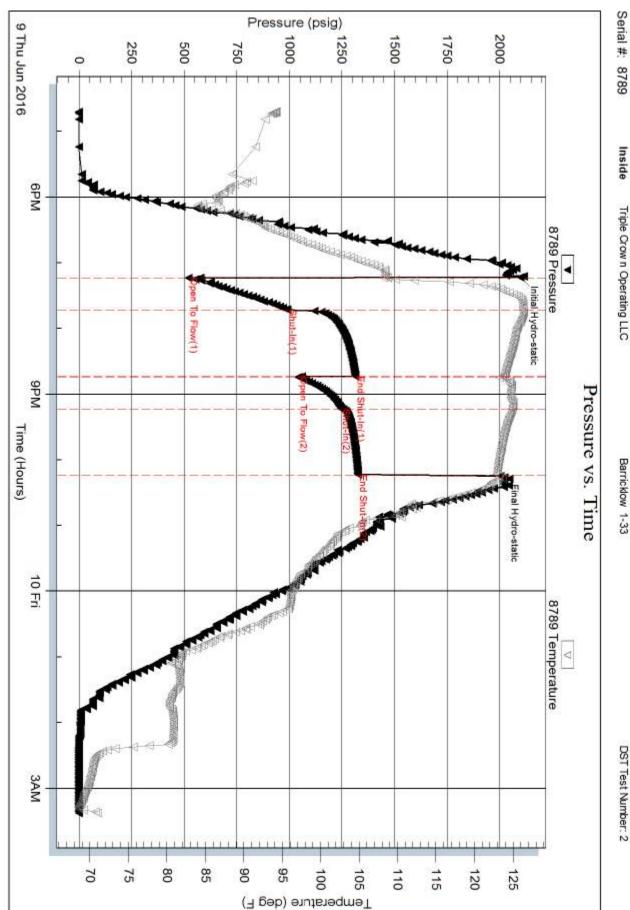
Trilobite Testing, Inc

OA-		DRI	LL STEM TEST REPOR	Т	FI	LUID SUMMAR
第二	RILOBITE	Triple (	Crow n Operating LLC	33 20s 22	w Ness	
	ESTING , INC.		5 Utica Pl Ste 100 DK 74114-7099	Barricklo		DST#:2
W.		ATTN:	Rod Anderson		2016.06.09 @ 16:4	-
ud and Cu	shion Information					
ud Type: Ge	el Chem		Cushion Type:		Oil API:	37 deg API
ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	32000 ppm
iscosity:	52.00 sec/qt		Cushion Volume:	bbl	,	
ater Loss:	8.94 in <sup>3</sup>		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: Iter Cake:	12500.00 ppm 2.00 inches					
ecovery In	formation					
	,		Recovery Table	1	_	
	Lengt ft	h	Description	Volume bbl		
		496.00	Water 100%	5.85	5	
		372.00	MOCW 5%M 10%O 85%W	5.21	8	
	1	178.00	GWCO 10%G 25%W 65%O	16.52	4	
		434.00 464.00	GMWCO 20%G 10%M 20%W 50%O OCM 40%O60%M	6.08 6.50		
	Laboratory Nam Recovery Com		Laboratory Location: 20 @ 70			

Printed: 2016.06.10 @ 07:38:53

Ref. No: 64930

Trilobite Testing, Inc



Triple Crow n Operating LLC

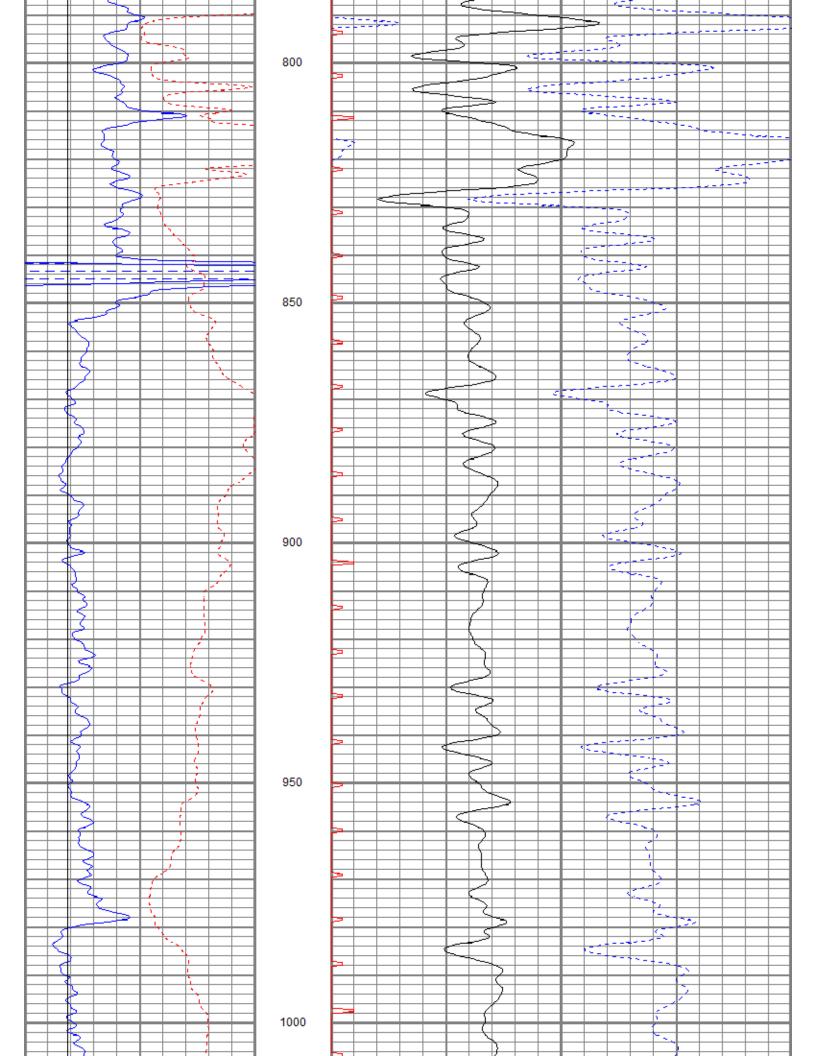
Inside

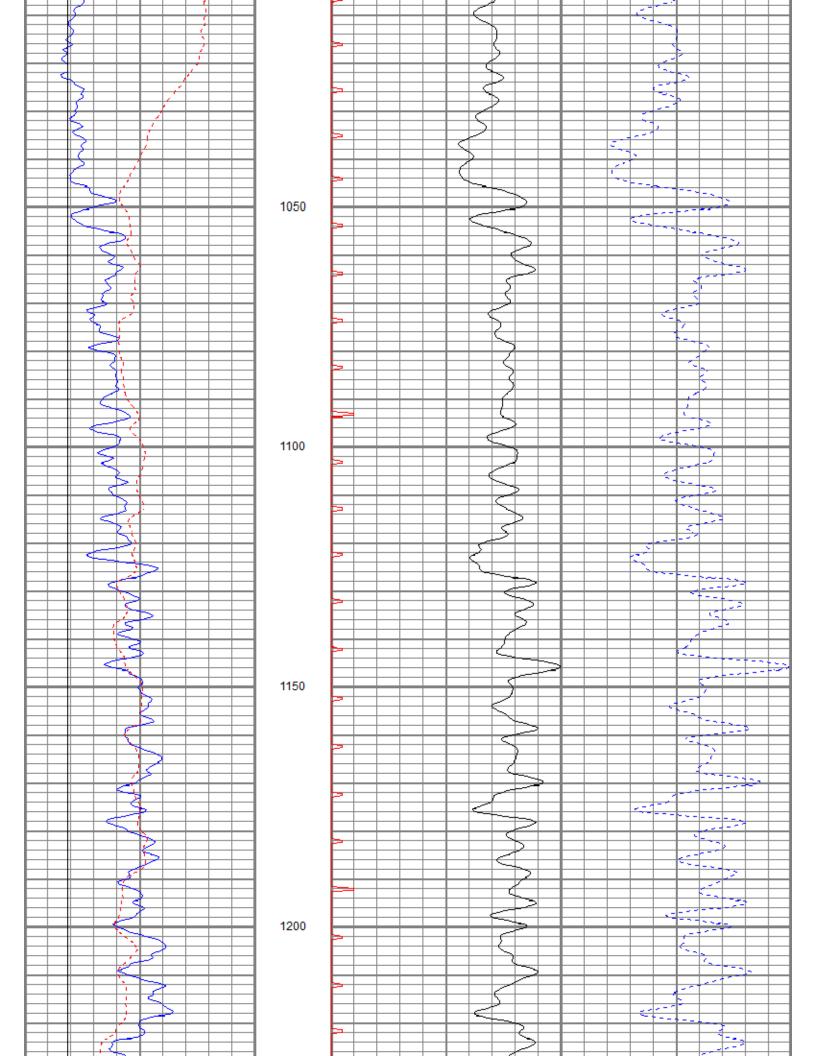
Barricklow 1-33

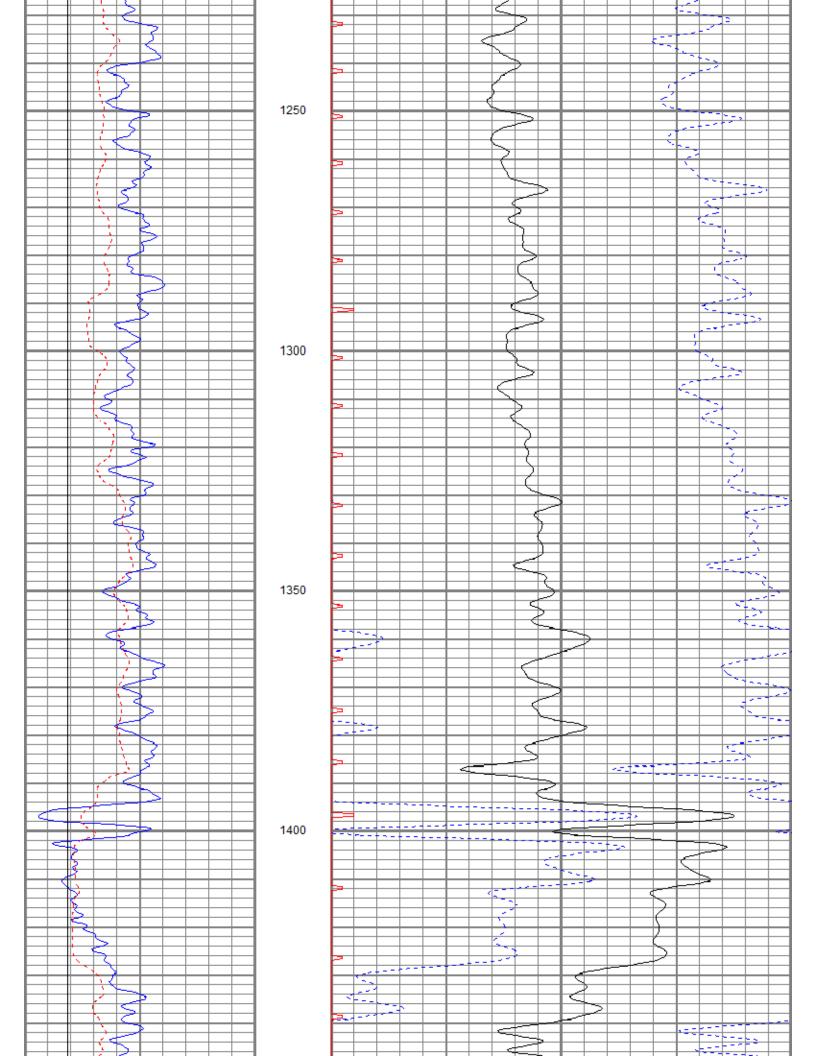
DST Test Number: 2

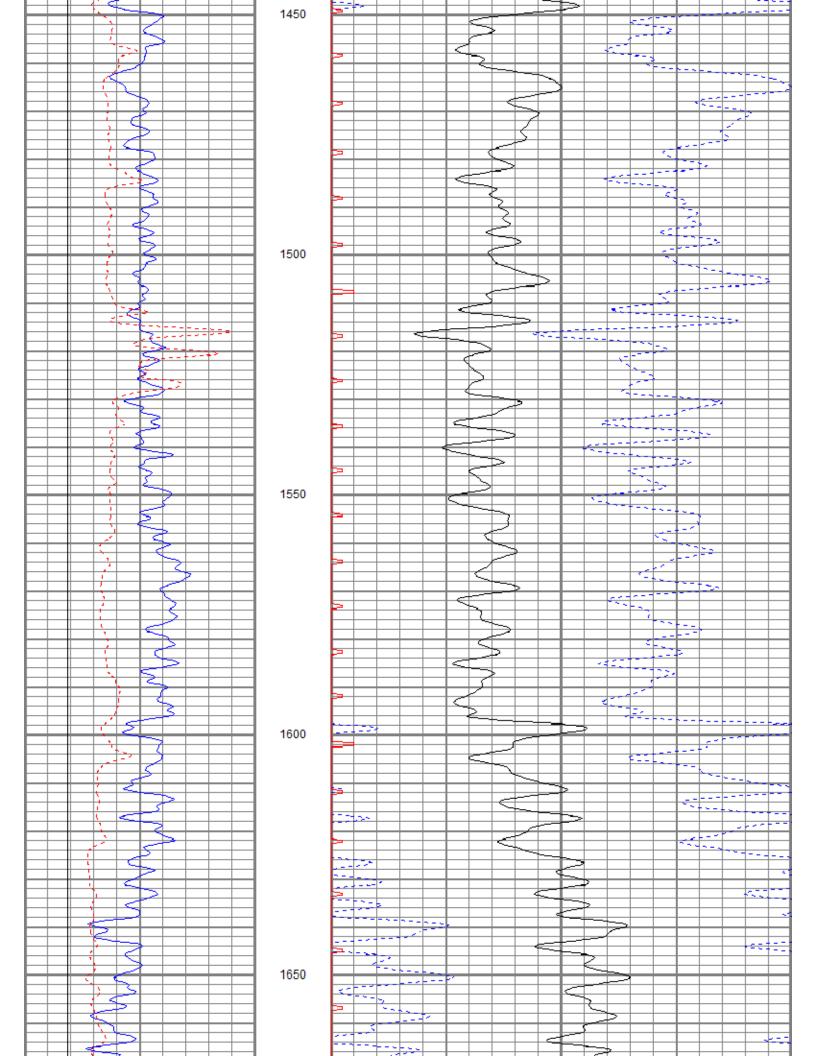
Recorded By Witnessed By	Location	Equipment Number	Maximum Recorded Temperature	Time Logger on Bottom	Time Circulation Stopped	Rm @ BHT	Source of Rmf/Rmc	Rmc @ Meas. Temp	Rmf @ Meas. Temp	Rm @ Meas. Temp	Source of Sample	pH / Fluid Loss	Density / Viscosity	Type Fluid in Hole	Bit Size	Casing Logger	Casing Driller	Top Log Interval	Bottom Logged Interval	Depth Logger	Depth Driller	Run Number	Date	Company Well Field County County State County State County County From Drilling Measured From	Ba Ba Ne Ka	iple Cr arricklo arricklo ass ansas	ow#1-:	County	Field	Well		Compan				
All i a	< F	old	Her	re >	->> are on,	and	bini	ons	ba	no	1 on	xce	ere	n th	ec	rom	e of	ectri	ss	orv	will	ful i	neg	atum Ground Level Elevation 2179' K.B. 2187' d From KB 8' AGL D.F. 2186' D.F. 2186' G.L. 2179' asurence on y asure big add by the second secon	33 TWP 20S RGE 22W Elevation and our solution	we ca	API # : 15 135 25911 Other Services at le CDNL	or res	ponsib	le for	e the	loss,	costs,	dama	ges, or	of
											SU	h					Sc	put	th	of	<sup>1</sup> N		ss	City to h, 1 Ea into.	0 20	) Rd			edule.							
		G	E	=/	V	1																		Ma	nir	า	Pa	as	S							

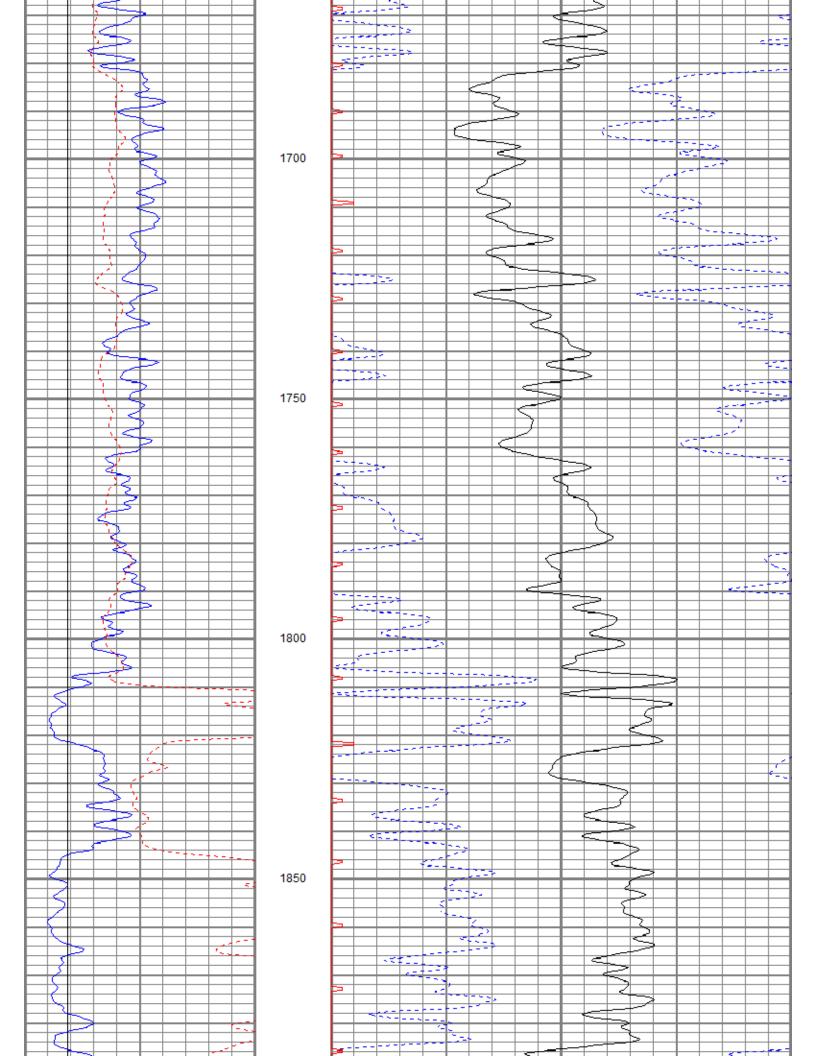
Dataset Pathname pa Presentation Format kb Dataset Creation Fri	parricklow#1-33o iss4bcs ics i Jun 10 21:24:52 apth in Feet scale	2016																	
0 GR (GAPI)	150		140									sec/f							40
6 MCAL (in) 6 BOREID (in)	16 16		30 0			ITT (I	msec	;)			POF 20	R (pu	)			 			 -10
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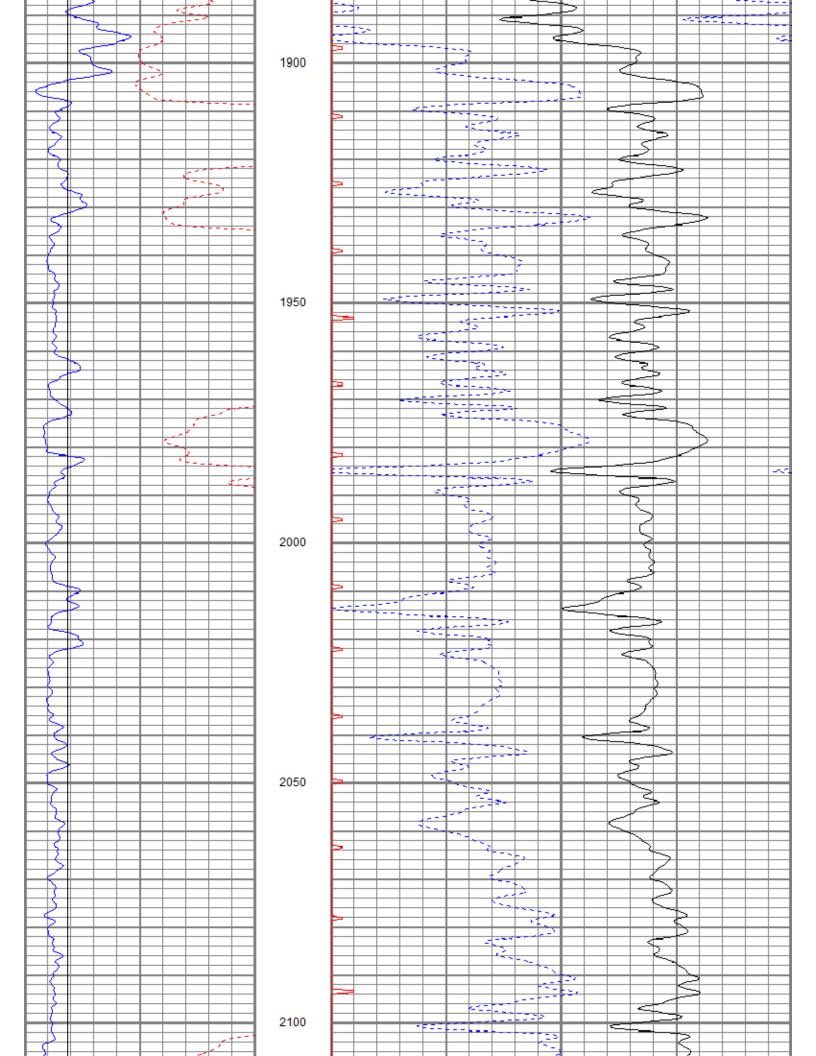


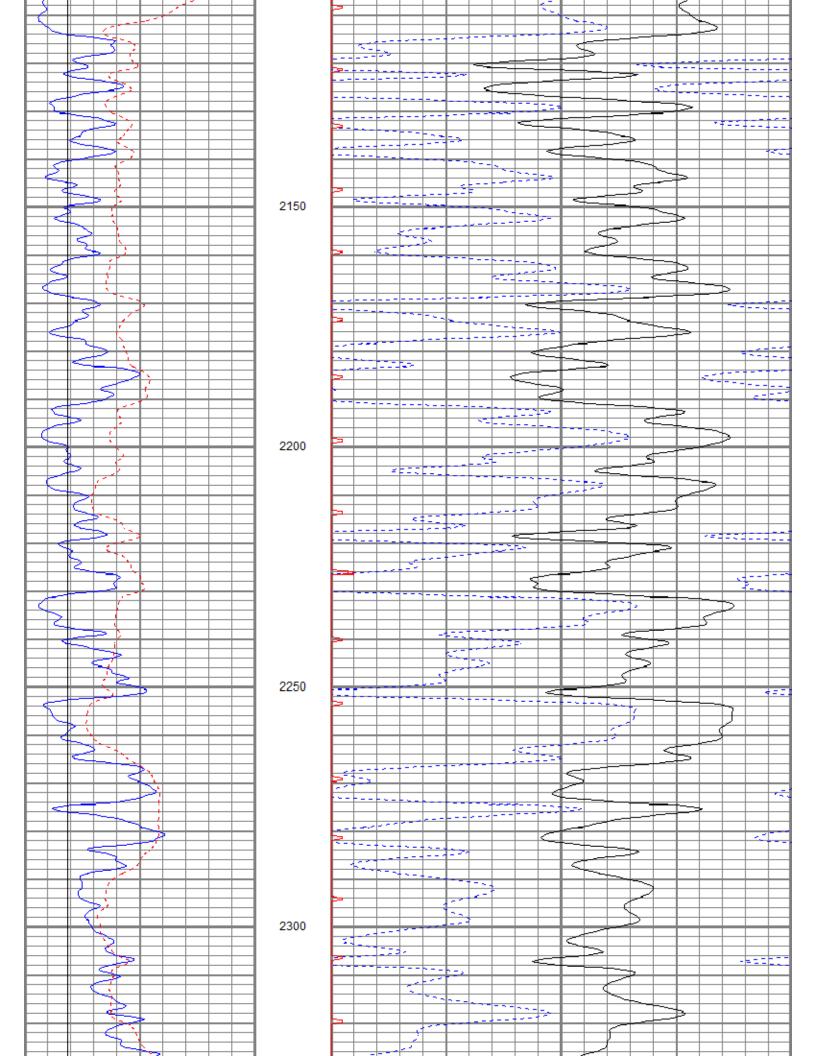


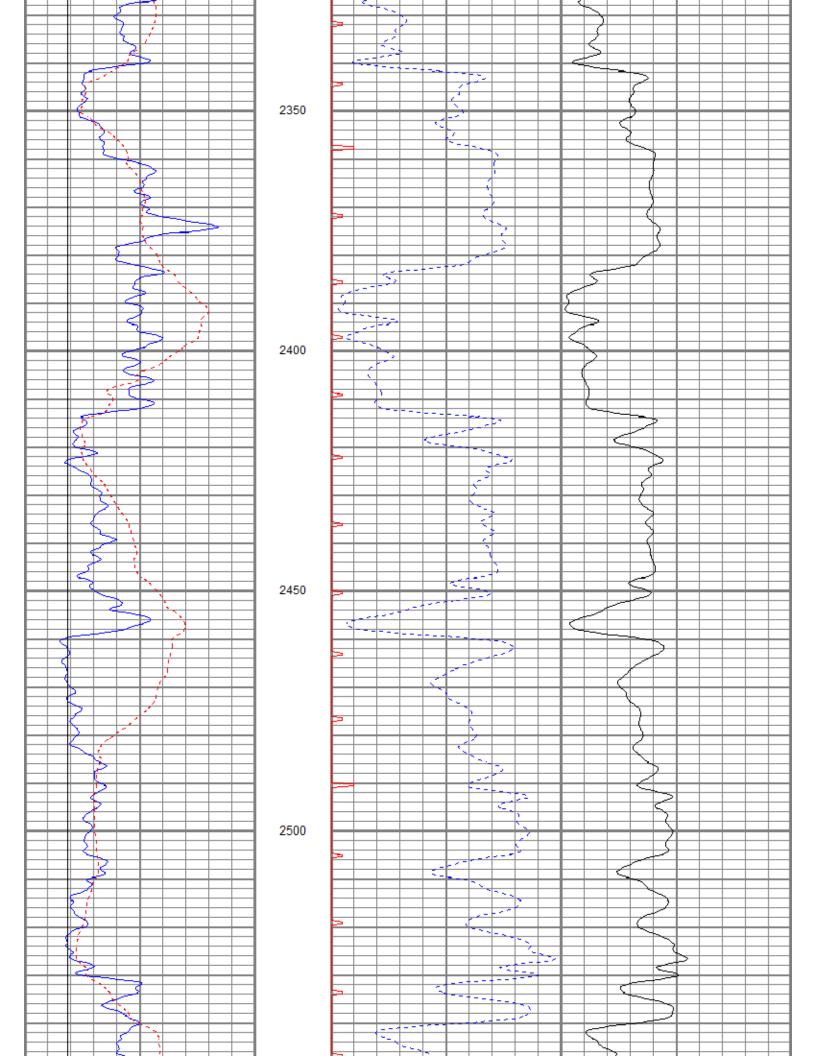


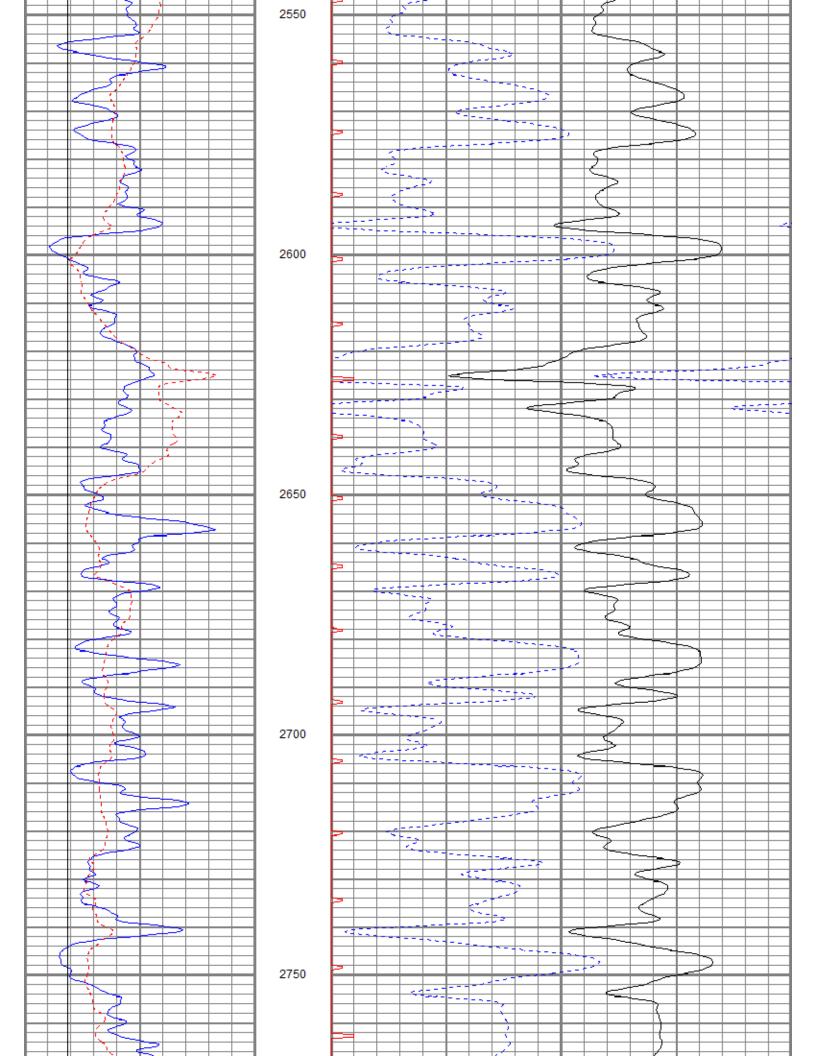


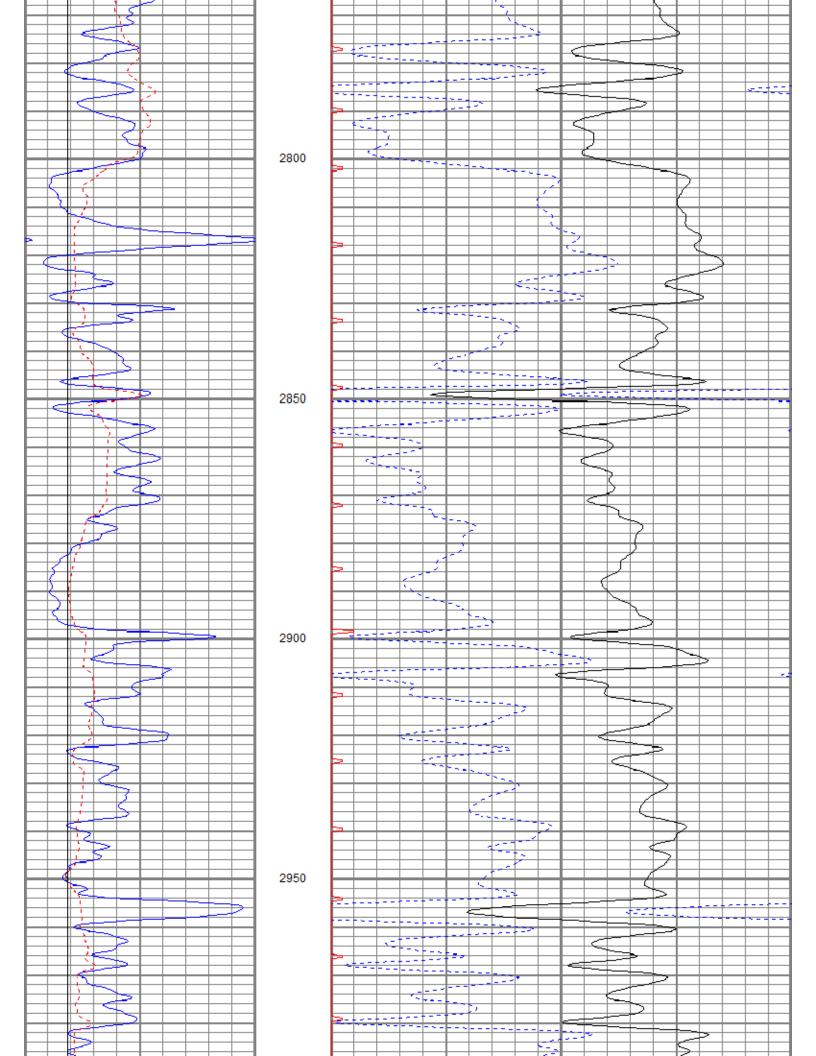


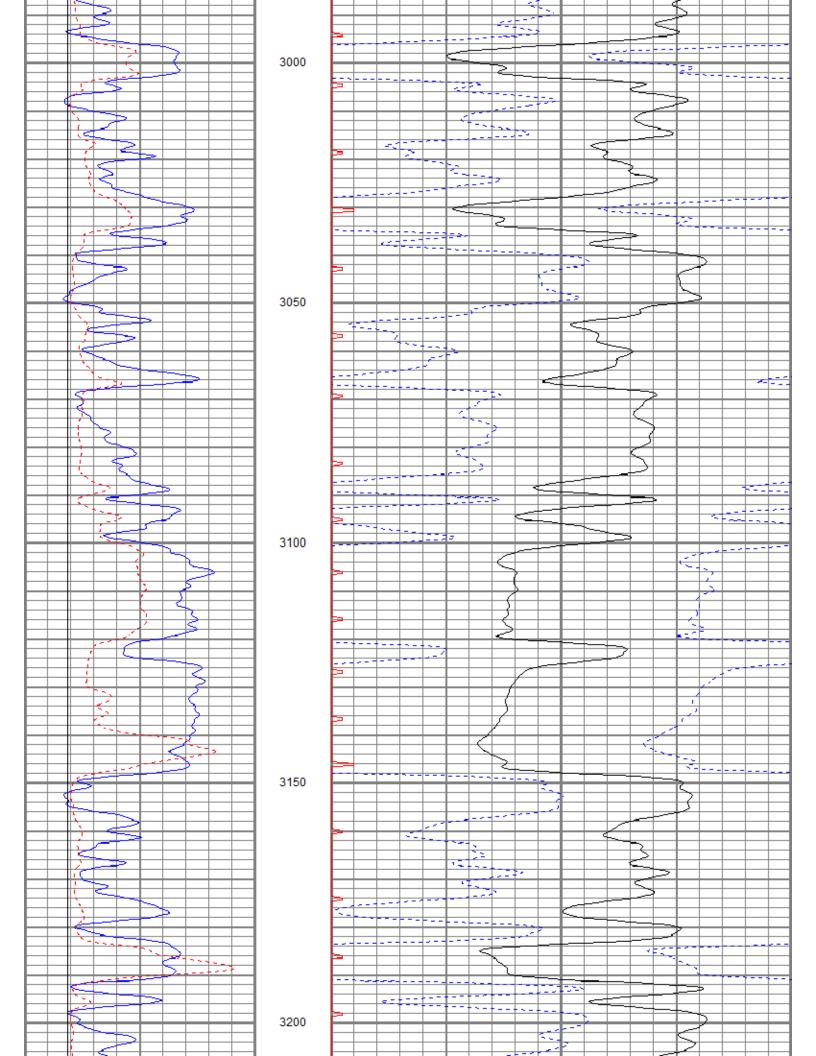


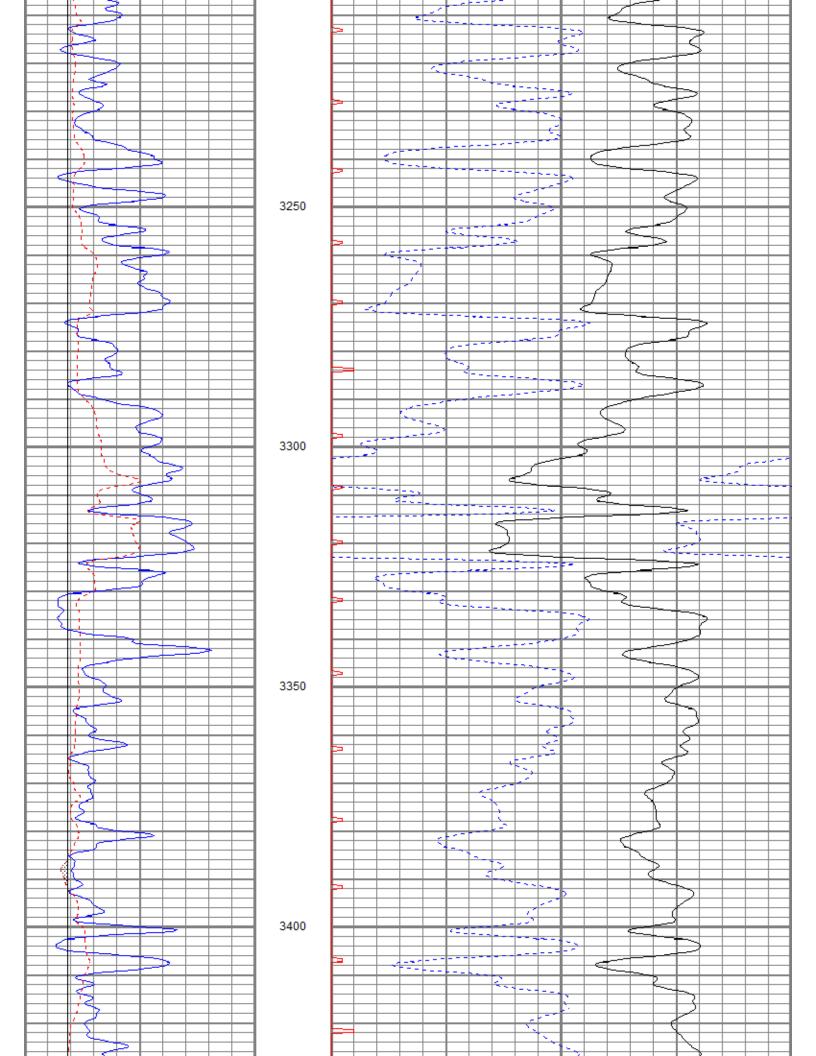


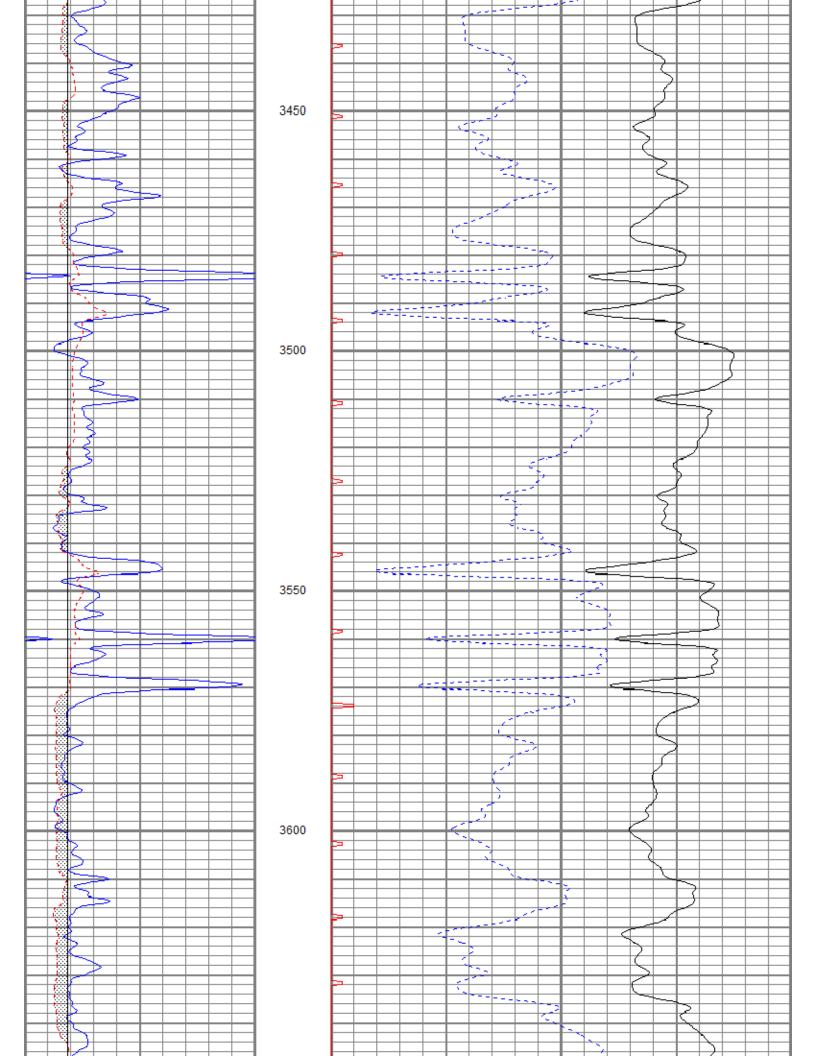


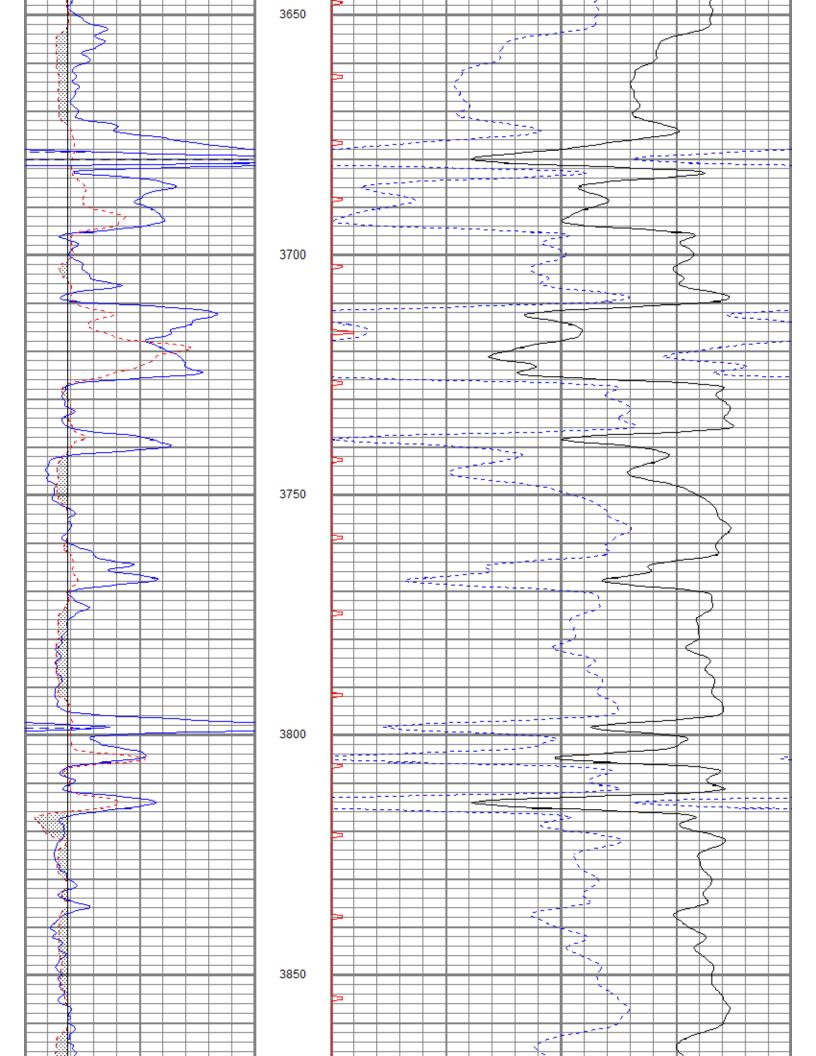


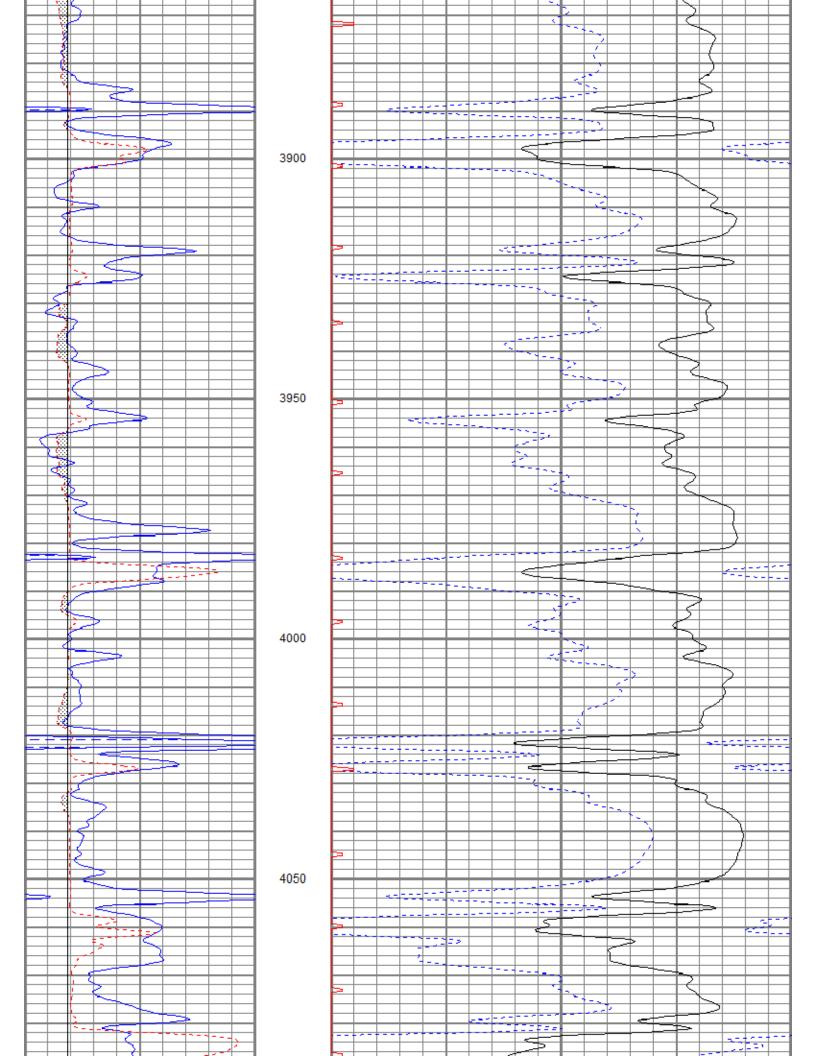


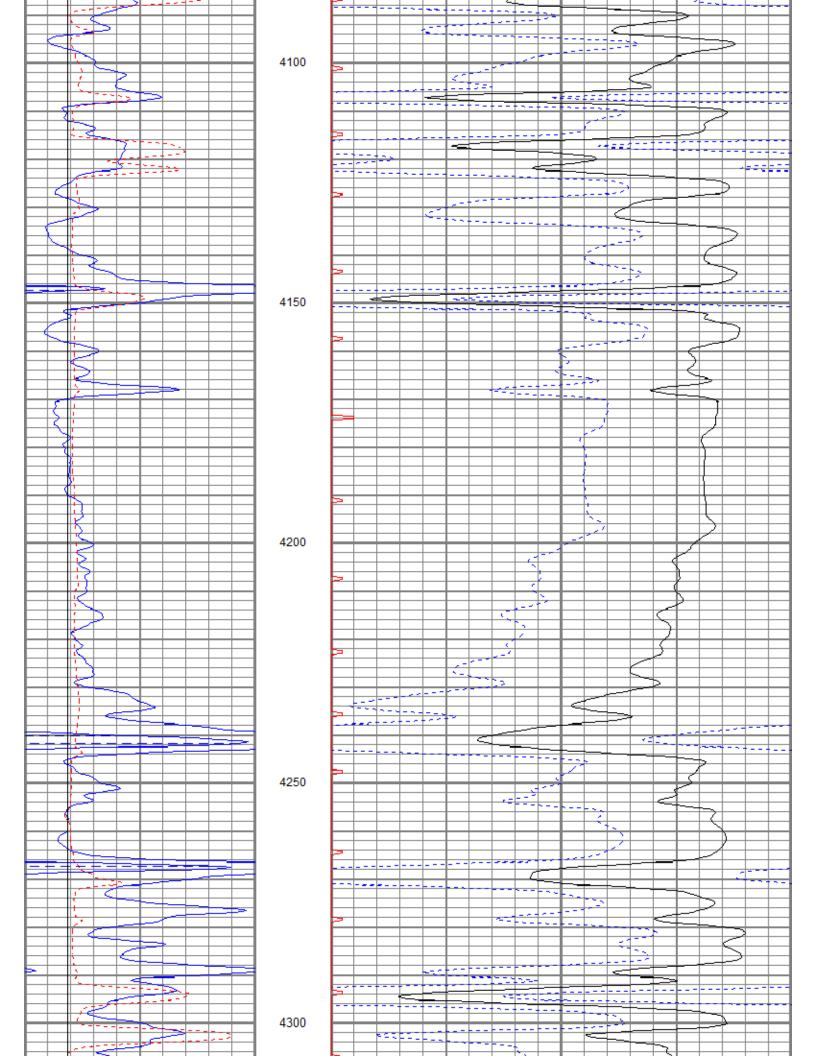


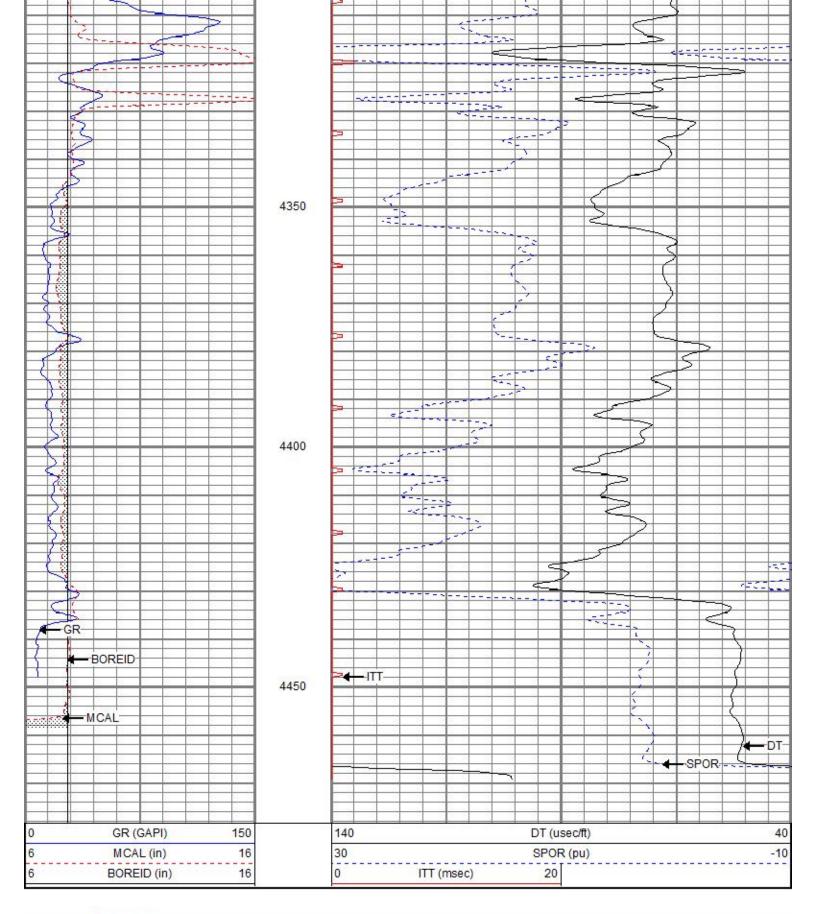








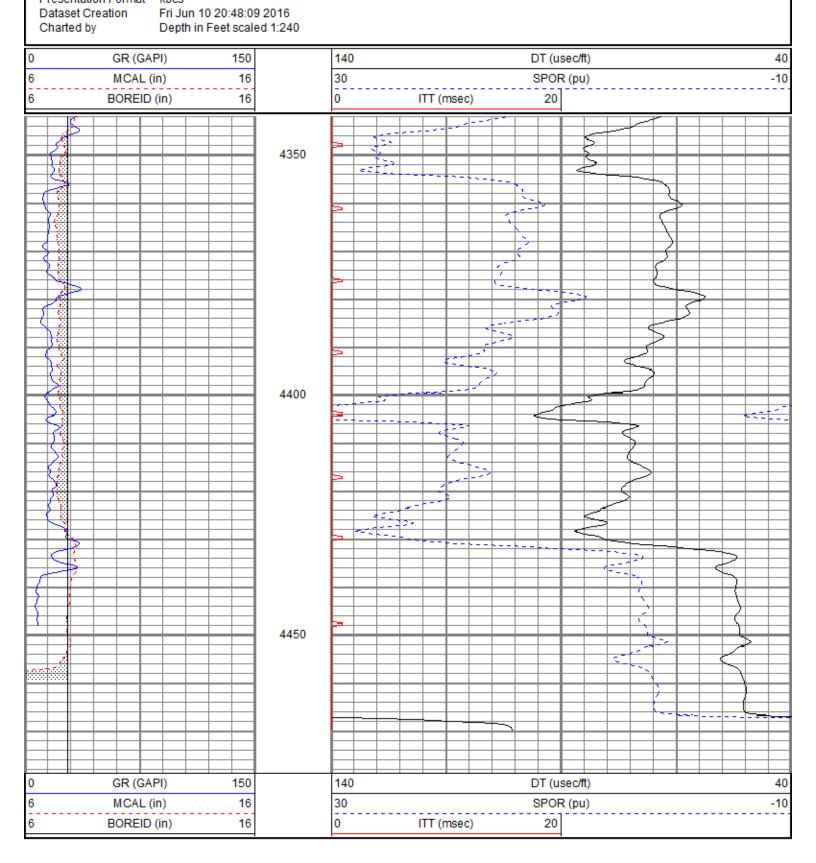






## **Repeat Pass**

Database File tcbarricklow#1-33oh.db Dataset Pathname pass3.1 Presentation Format kbcs

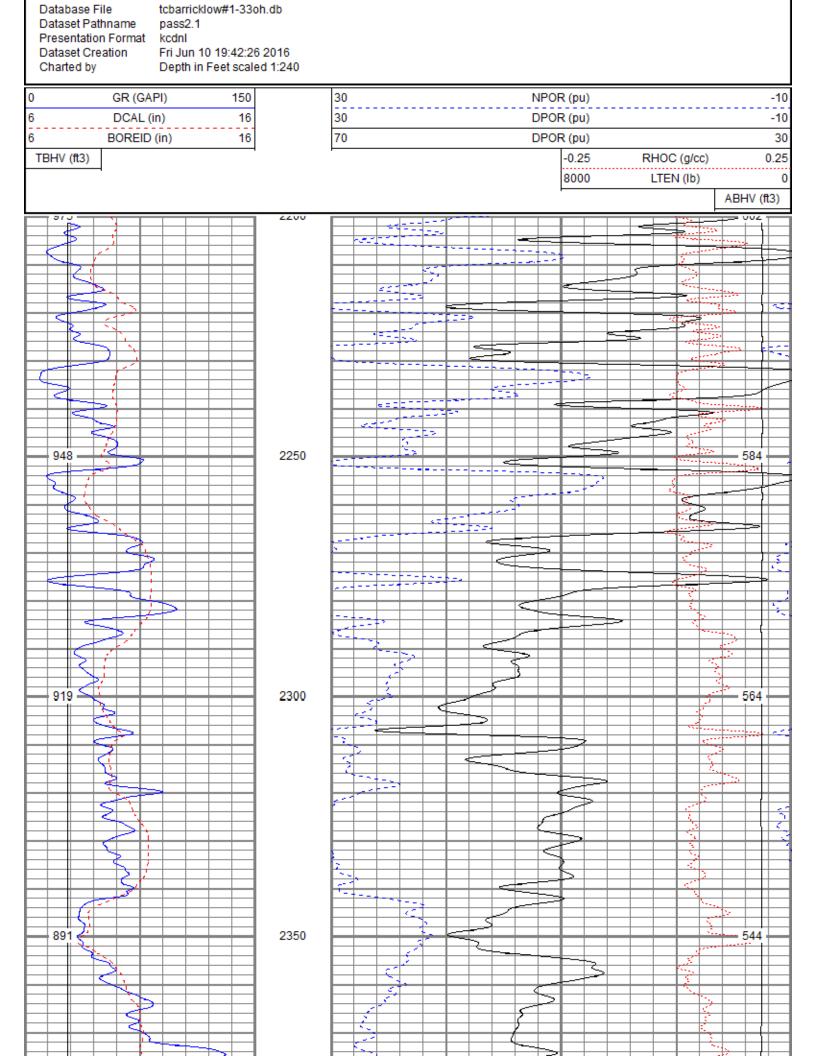


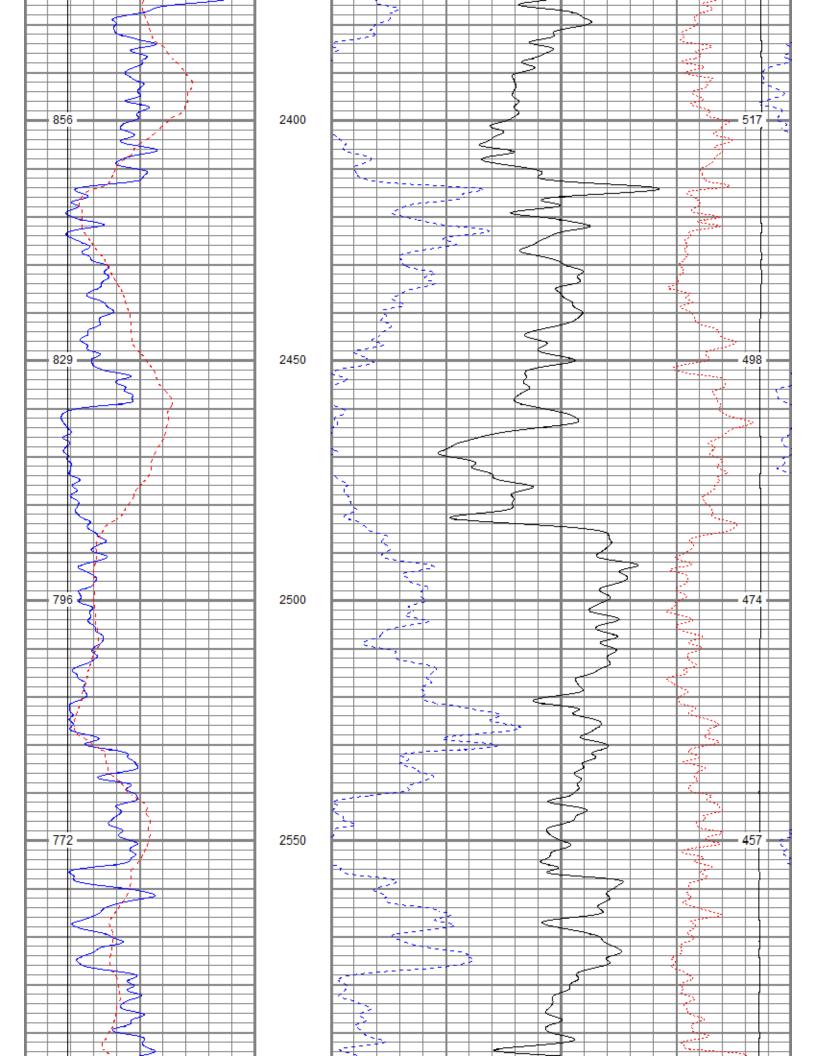
Database File Dataset Pathname Dataset Creation	tcbarricklow#1-33oh.db pass3.1 Fri Jun 10 20:48:09 2016	Calibration Report	
	Serial-Model:	Microlog Calibration Report	
	Performed: Readings	012-Pengo Wed Apr 20 21:39:52 2016 References	Results
	Zero Cal	Zero Cal	m h

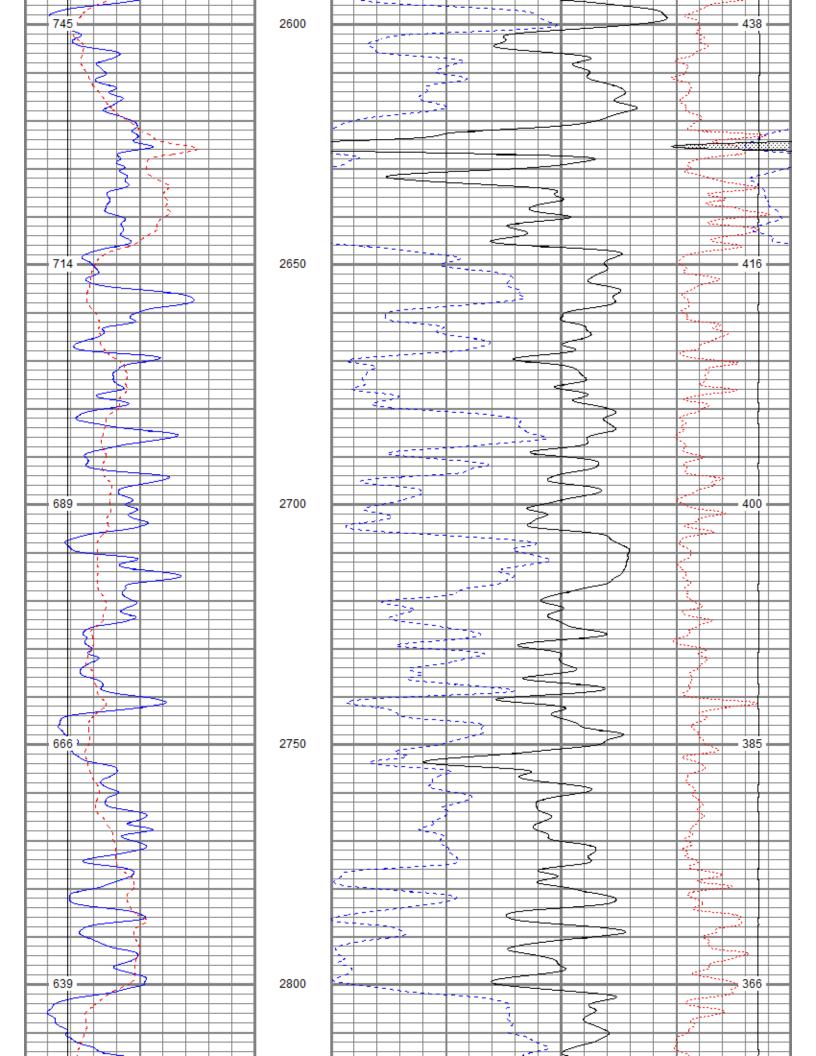
	2010	Odi		2010	Oar			0
Normal	0.0073	0.4397	V	0.0000	11.0000	Ohm-m	25.4408	-0.1852
Inverse	0.0081	0.5639	V	0.0000	7.3000	Ohm-m	13.1357	-0.1070
Caliper	2.0536	4.5712	V	7.6000	14.0000	in	2.5420	2.3798
			Gamma R	ay Calibration	Report			
Serial	Number:		2001					
Tool M	odel:		OH					
Perforr	med:		Thu Jan	21 09:36:03 20	016			
Calibra	ator Value:		1.0	C	SAPI			
Backgi	round Reading:		0.0	c	ps			
Calibra	ator Reading:		1.0	C	ps			
Sensiti	ivity:		0.2400	C	GAPI/cps			

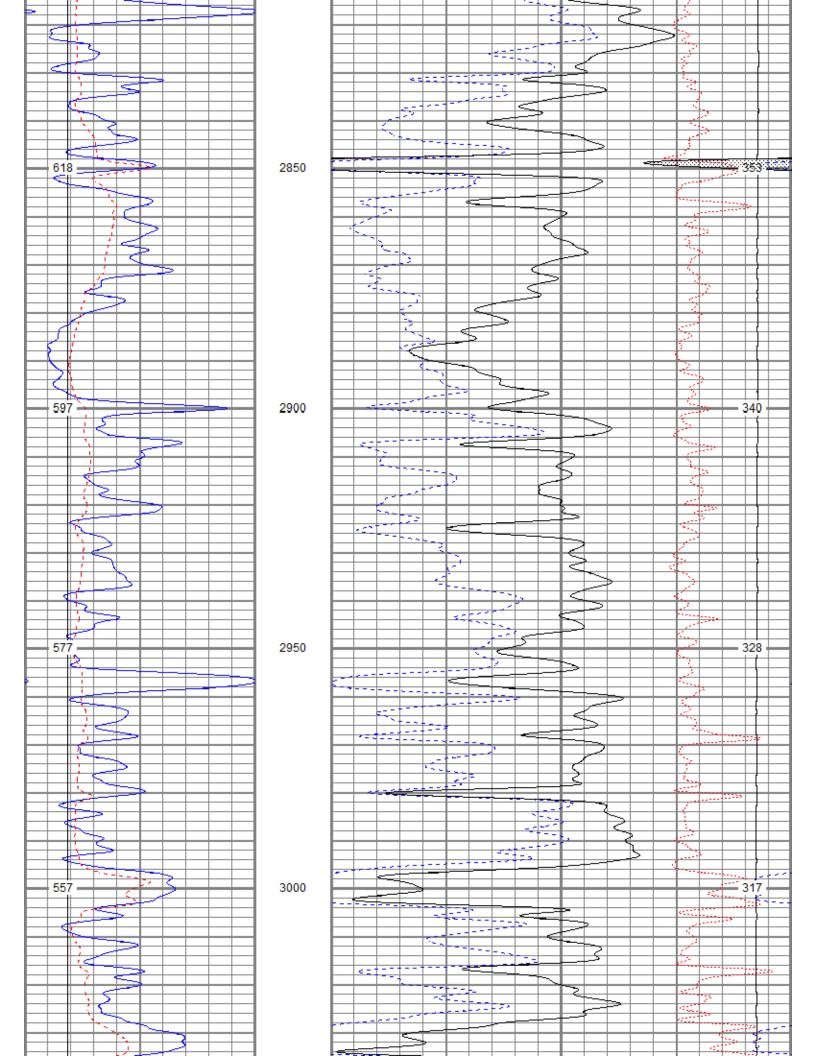
Sensor	Offset (ft)		Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	27.88			GR-OH (2001) 2001	3.56	3.25	40.00
MCAL MI MN	21.05 21.05 21.05	<u>J</u>		ML-Pengo (012)	6.97	3.50	100.00
WVF4 WVF3 WVF2 WVF1	13.79 12.79 9.79 8.79			SLT-G (101127) Sonic	15.71	3.50	250.00
				CENT-OHshort Open Hole short centralizer	4.04	3.50	50.00
			Total length: 30 Total weight: 44	cbarricklow#1-33oh.db: field/well/run1/pass3.1 0.28 ft 40.00 lb .50 in			

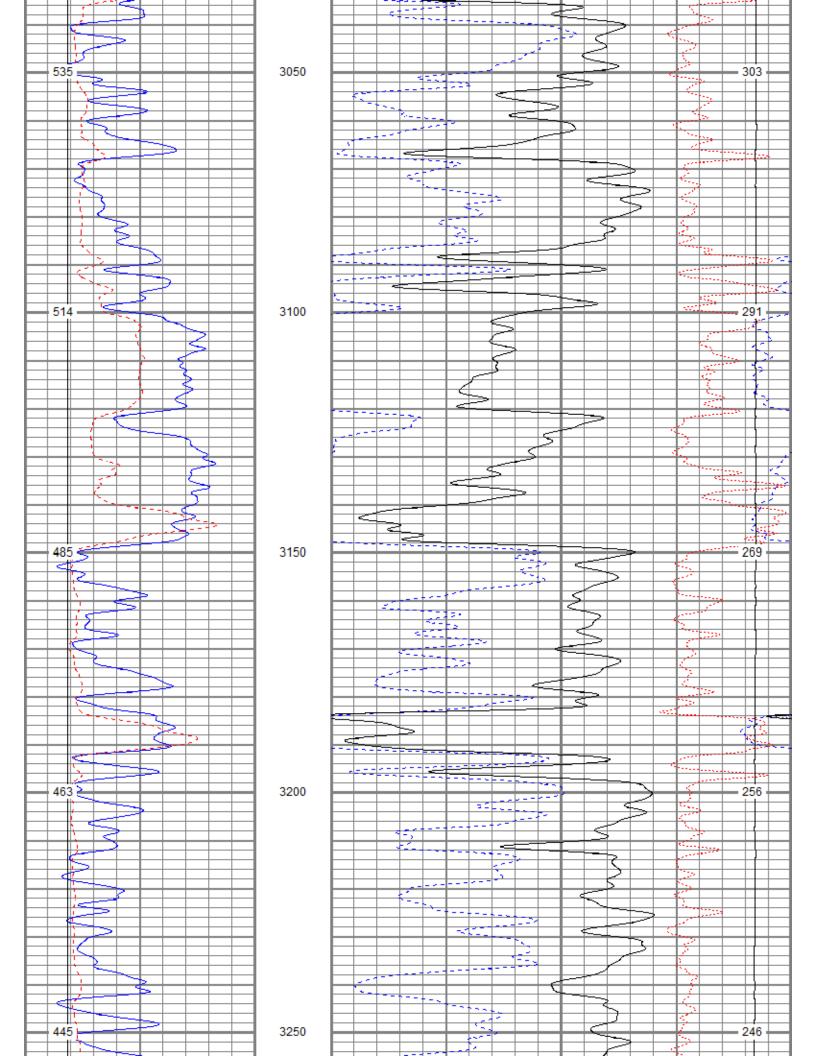
Image: State of the set						
South of Ness City to 20 Rd. East to Z Rd. 1 South, 1 East, 1/2 South	33       TWP 20S       RGE       22W       Elevation       2179'       KB       Elevation         0ne       0ne       0ne       0ne       0.1.2179'       K.B. 2179'       K.B. 2187'         4480'       4480'       4480'       0.1.2179'       K.B. 2179'       K.B. 2179'       K.B. 2179'         513''       513''       513''       513''       0.1.2179'       K.B. 2179'       K.B. 2179'         210076degf       2300 p.m.       513''       1.170'       120degf       1.1770'       120degf         1120degf       1.1770'       120degf       1.1770'       120degf       1.1770'       120degf         1127       1.127'       1.127'       1.127'       1.127''       1.127''       1.127''         1127       1.127''       1.127''       1.127''       1.127''       1.127''       1.127''         1120       1.1770''       1.110''       1.110''       1.110'''       1.110''''       1.110''''''''''''''''''''''''''''''''''	COMPENSATED DENSITY Ness State Kansas API #: 15 135 25911 Other Services Cannot and do not guarantee the accuracy or correctness of be liable or responsible for any loss, costs, damages, or ficers, agents or employees. These interpretations are also				
GEMINI Main Pass	South of Ness City to 20 Rd. East to Z Rd. 1 South, 1 East, 1/2 South West into.					

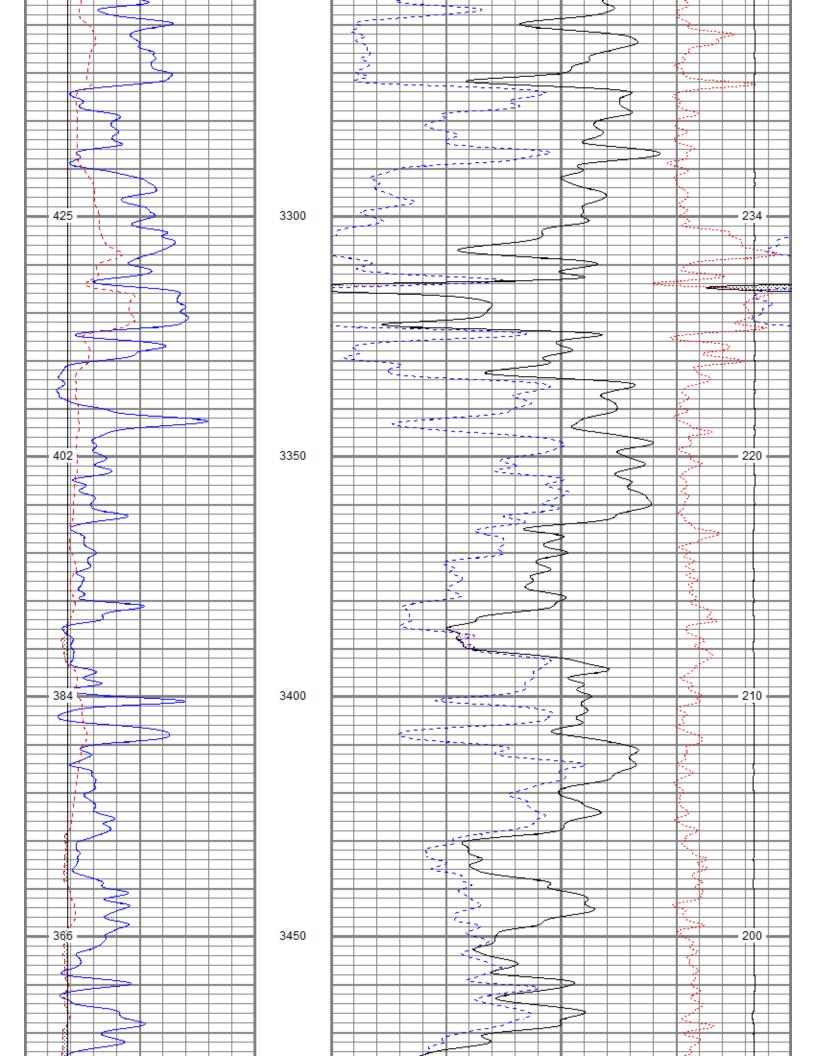


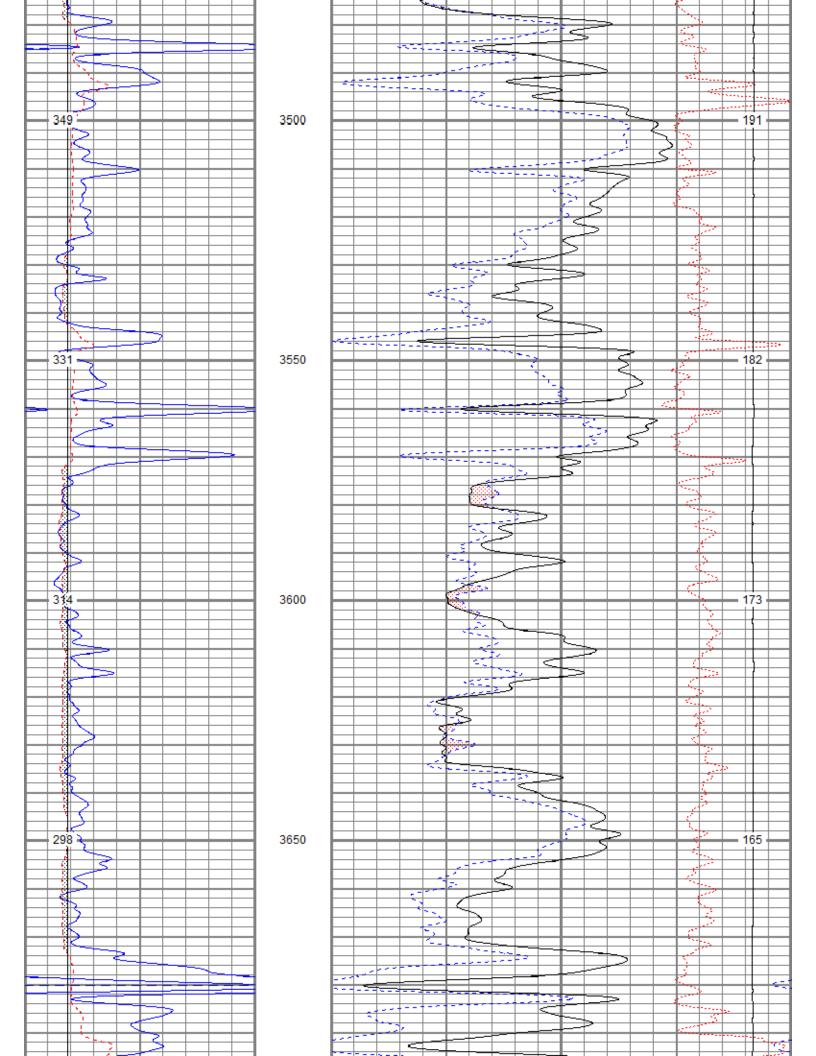


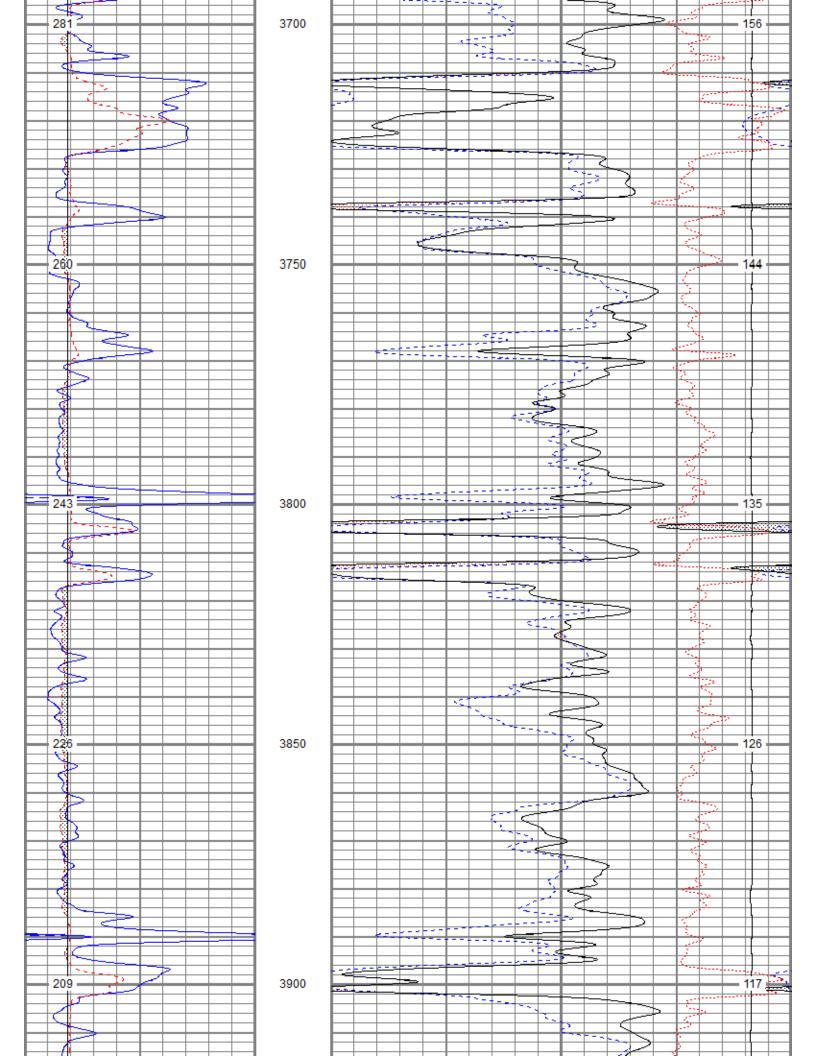


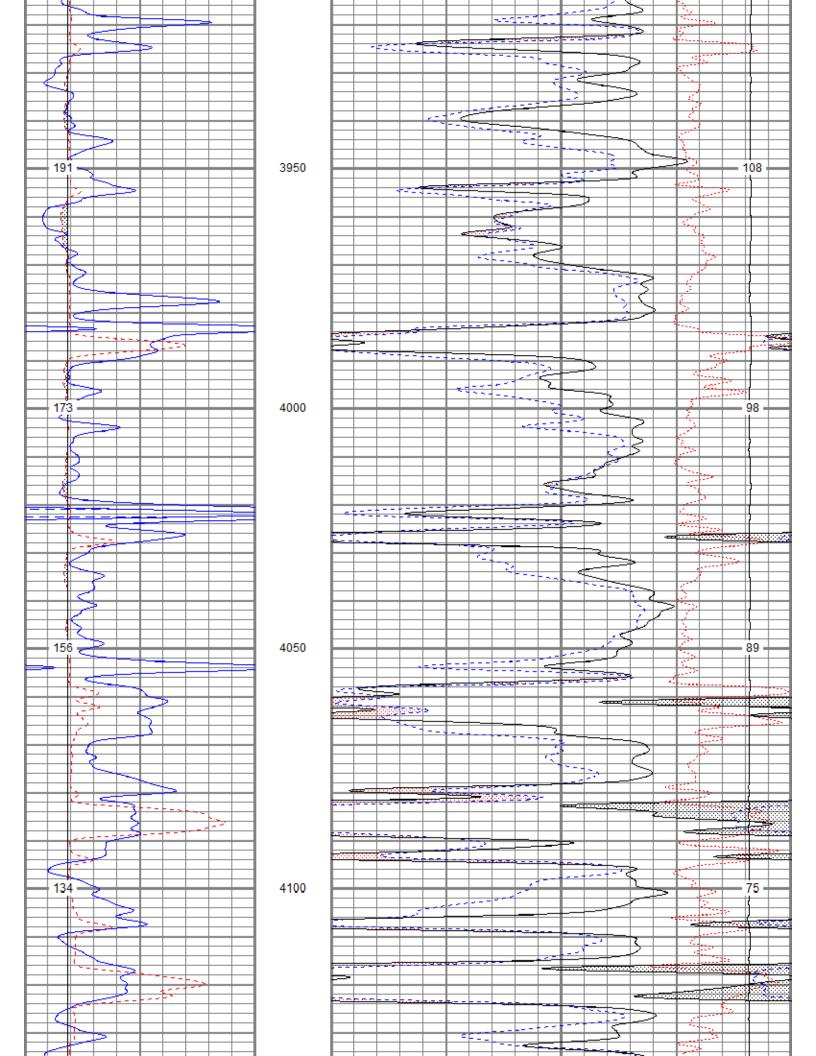


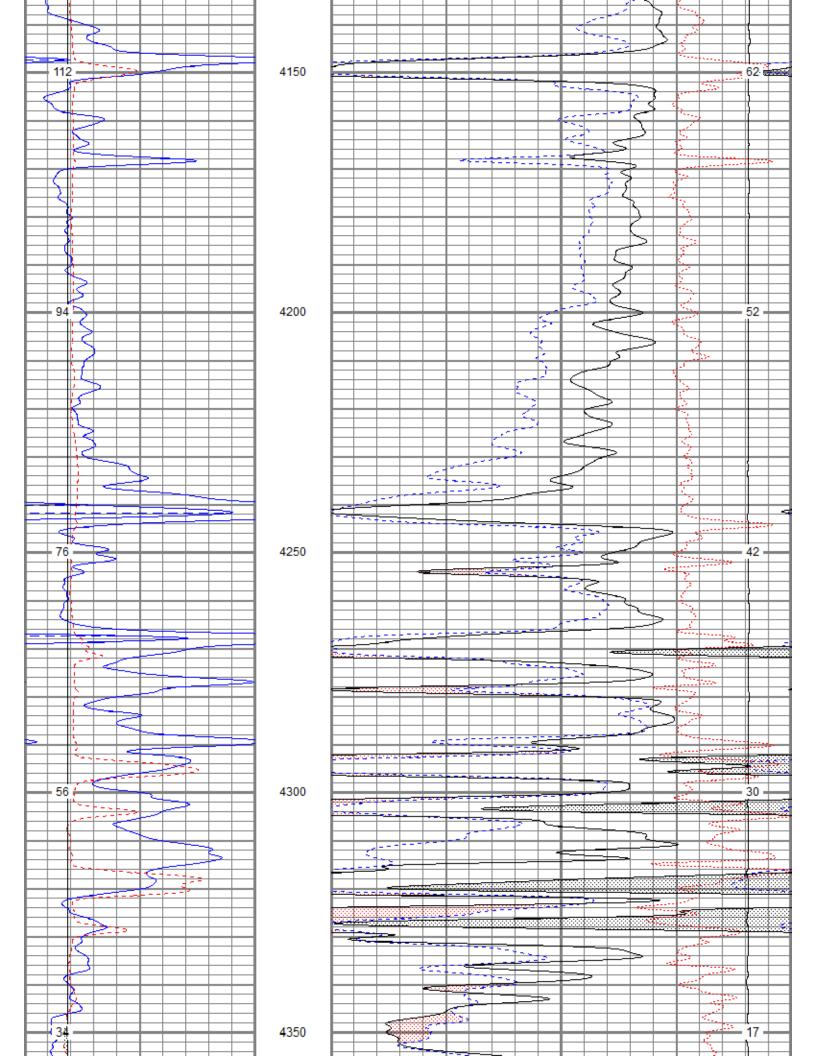


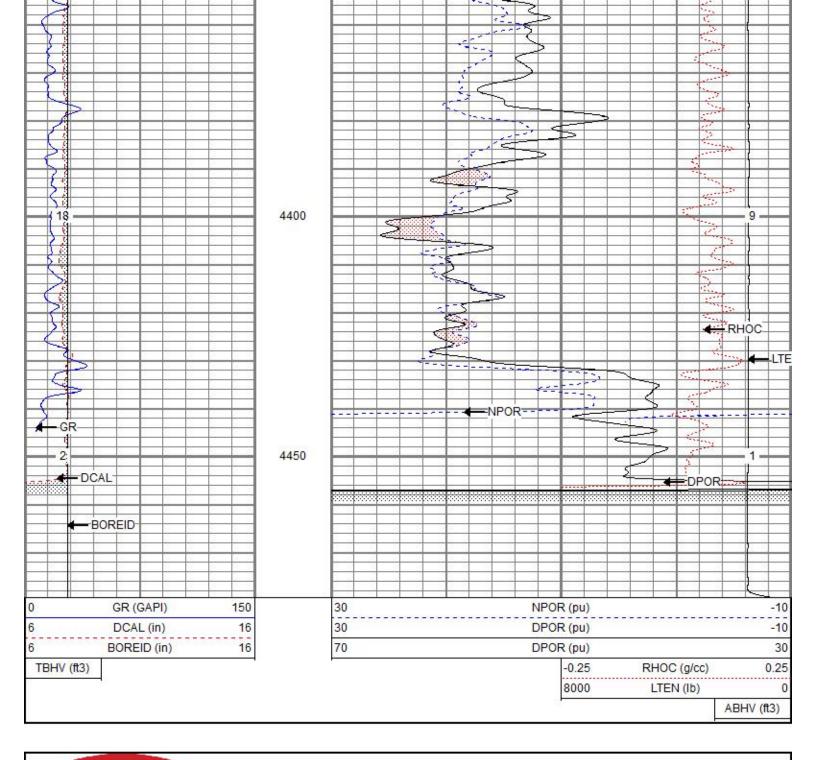




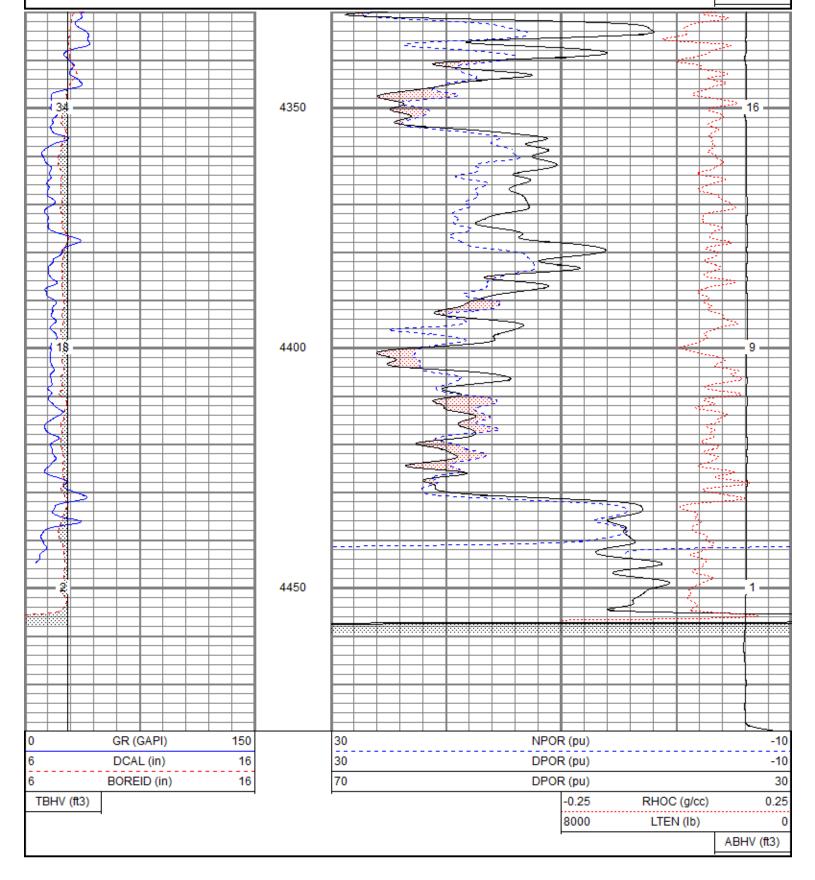








				Re	peat Pass	;	
Presen	t Pathname Itation Format It Creation	pass1.1 kcdnl Fri Jun 1	ow#1-33oh.db 0 19:07:35 2016 Feet scaled 1:24	0			
0	GR (GA	PI)	150	30	NPOR (pu)		-10
6	DCAL	(in)	16	30	DPOR (pu)		-10
6	BOREID	) (in)	16	70	DPOR (pu)		30
TBHV (f	t3)			22	-0.25	RHOC (g/cc)	0.25
					8000	LTEN (Ib)	C
					ž-		ABHV (ft3)



Calibration Report Database File tcbarricklow#1-33oh.db Dataset Pathname pass1.1 Fri Jun 10 19:07:35 2016 Dataset Creation Dual Induction Calibration Report 080522-Probe Serial-Model: Surface Cal Performed: Mon Mar 14 11:26:37 2016 Downhole Cal Performed: Mon Mar 14 11:26:40 2016 After Survey Verification Performed: Mon Mar 14 11:26:42 2016

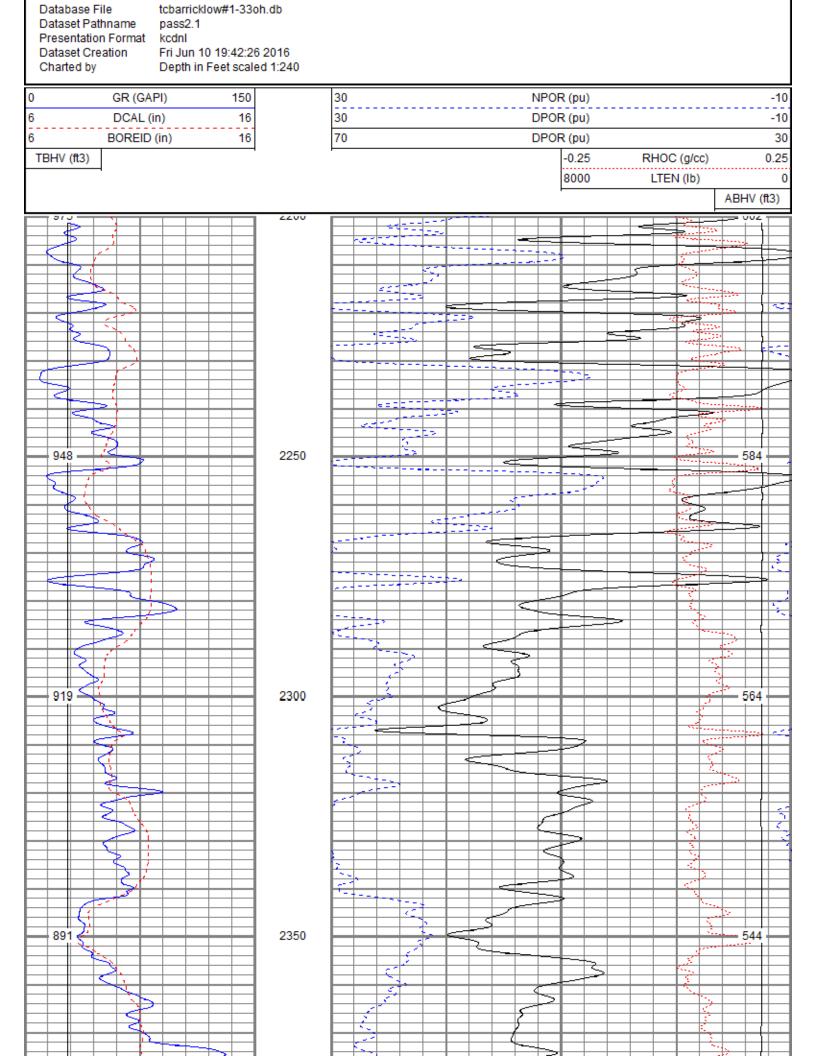
Surface Calibrat	ion	Readings			References		Res	sults
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	-0.040 -0.028	0.651	V V	0.000	400.000 464.000	- mmho/m mmho/m	578.981 602.582	22.871 16.690
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	-0.016 -0.025	0.653 0.747	V V	0.000 0.000	400.000 464.000	- mmho/m mmho/m	598.311 601.262	9.396 14.808
Downhole Calib	ration	Readings			References		Res	sults
	Zero	Cal		Zero	Cal		m	b'
Deep Medium LL3	6.834 -2.964	401.088 468.230 7.145 0.016 -7.248	mmho/m mmho/m V V V	13.778 1.850	400.855 466.869 750.000 12.000 3745.000	- mmho/m Ohm-m Ohm-m mmho-m	0.982 0.987	7.068 4.775
After Survey Ver	ification							
	Zero	Readings Cal		Zero	Targets Cal			b'
Deep Medium LL3	0.000	0.000 0.000 0.000 0.000 0.000 0.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	6.834 -2.964	401.088 468.230 750.000 12.000 3745.000	- mmho/m Ohm-m Ohm-m mmho-m	m 1.000 1.000	0.000 0.000
			Compensated	Density Calil	oration Report			
	Sourc Maste Before		erformed: cation Performed: tion Performed:		2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4	2		
Master Calibrati	on							
		Density		I	Far Detector	Near Detect	or	
Magnesium Aluminum	I	1.750 2.650	g/cc g/cc		668.56 125.78	327.82 210.67		
		Spine Angle	= 75.17		Density/Spine I	Ratio = 0.521		
		Size			Reading			
Small Ring Large Ring		7.35 14.00	in in		5695.86 9900.52			
Before Survey V	erification							
		Target			Measured			
			g/cc g/cc g/cc			g/cc g/cc g/cc		
After Survey Ver	ification							
		Target			Measured			
			g/cc g/cc g/cc			g/cc g/cc g/cc		

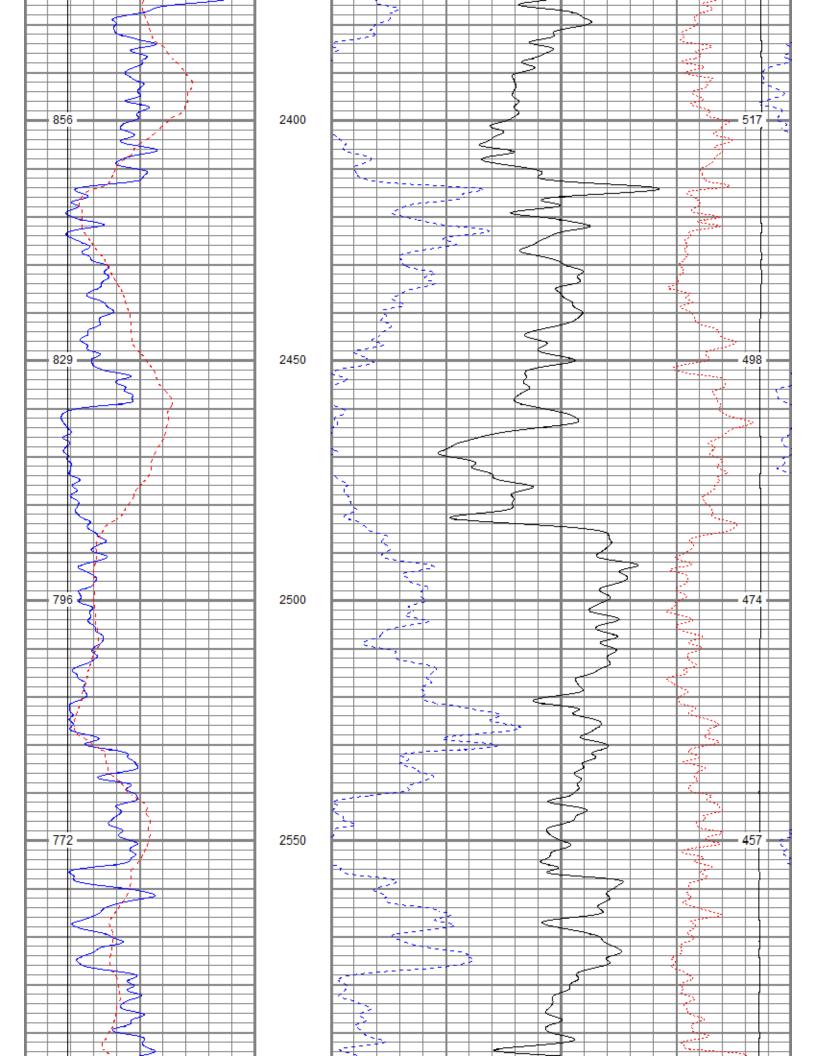
	Gamma Ray Ca	alibration Report		
Serial Number: Tool Model: Performed:	2001 OH Thu Jan 21 09	:36:03 2016		
Calibrator Value:	1.0	GAPI		
Background Reading: Calibrator Reading:	0.0 1.0	cps cps		
Sensitivity:	0.2400	GAPI/cps		
	Neutron Calibration Report			
Serial Number: Tool Model: Performed:	5108 PROBE Thu Jan 21 09	:36:17 2016		
Calibrator Value:	1	NAPI		
Calibrator Reading:	1	cps		
Sensitivity:	1	NAPI/cps		

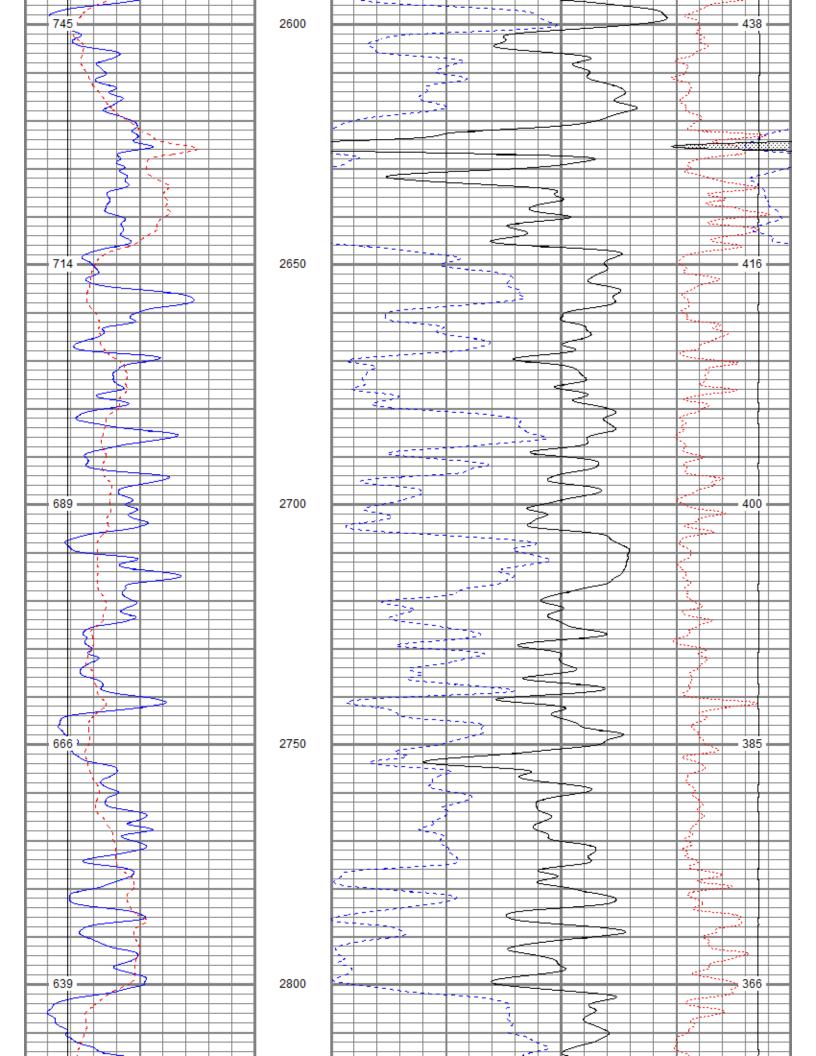
Sensor	Offset (ft)	Schematic	Description	Length (ft)		
NEU	38.26		CHD-None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
LSD DCAL	23.78 23.49	-/	CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
SSD HEADVOLT	23.24 21.47					
SP CILD	10.60 10.60	7	– DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					

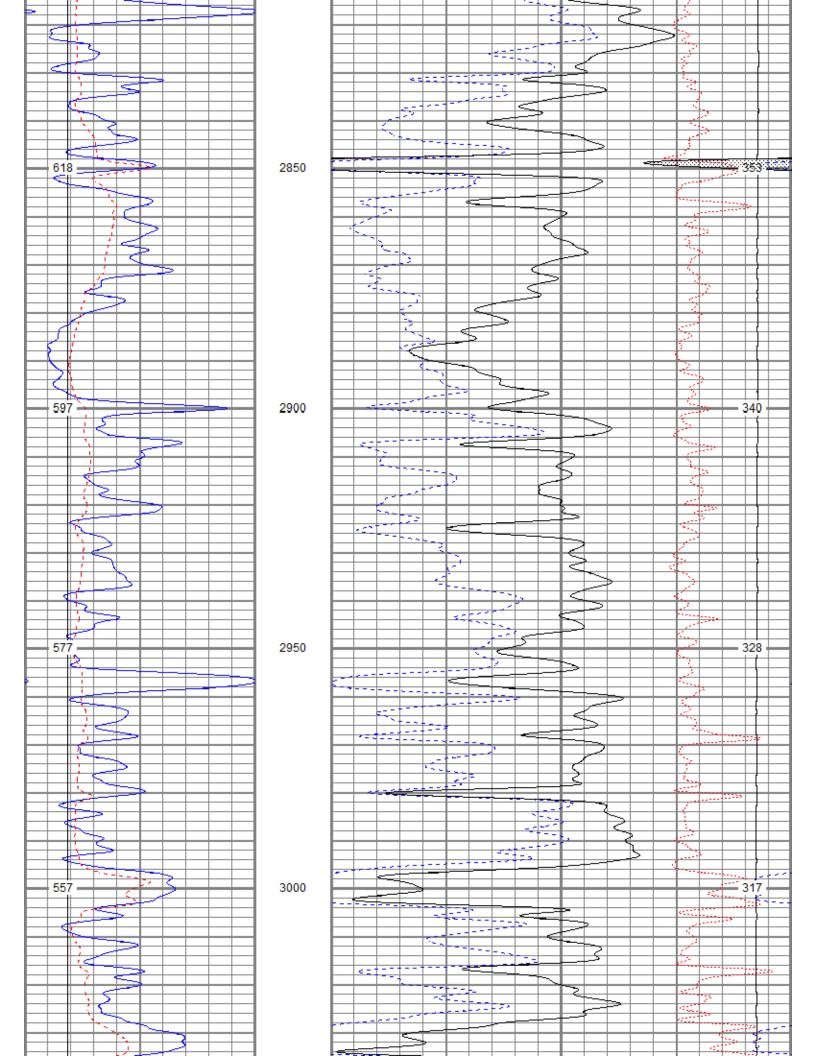
Dataset:	tcbarricklow#1-33oh.db: field/well/run1/pass1.1
Total length:	40.39 ft
Total weight:	676.00 lb
O.D.:	4.00 in

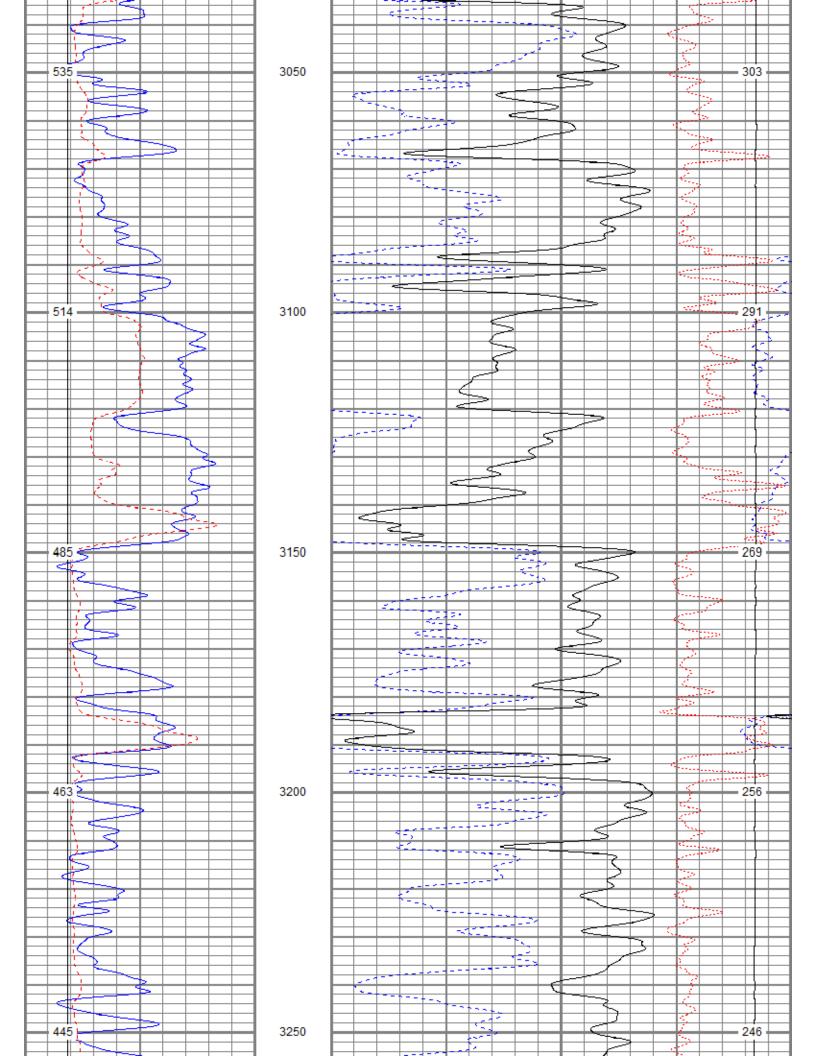
Image: State of the set						
South of Ness City to 20 Rd. East to Z Rd. 1 South, 1 East, 1/2 South	33       TWP 20S       RGE       22W       Elevation       2179'       KB       Elevation         0ne       0ne       0ne       0ne       0.1.2179'       K.B. 2179'       K.B. 2187'         4480'       4480'       4480'       0.1.2179'       K.B. 2179'       K.B. 2179'       K.B. 2179'         513''       513''       513''       513''       0.1.2179'       K.B. 2179'       K.B. 2179'         210076degf       2300 p.m.       513''       1.170'       120degf       1.1770'       120degf         1120degf       1.1770'       120degf       1.1770'       120degf       1.1770'       120degf         1127       1.127'       1.127'       1.127'       1.127''       1.127''       1.127''         1127       1.127''       1.127''       1.127''       1.127''       1.127''       1.127''         1120       1.1770''       1.110''       1.110''       1.110'''       1.110''''       1.110''''''''''''''''''''''''''''''''''	COMPENSATED DENSITY Ness State Kansas API #: 15 135 25911 Other Services Cannot and do not guarantee the accuracy or correctness of be liable or responsible for any loss, costs, damages, or ficers, agents or employees. These interpretations are also				
GEMINI Main Pass	South of Ness City to 20 Rd. East to Z Rd. 1 South, 1 East, 1/2 South West into.					

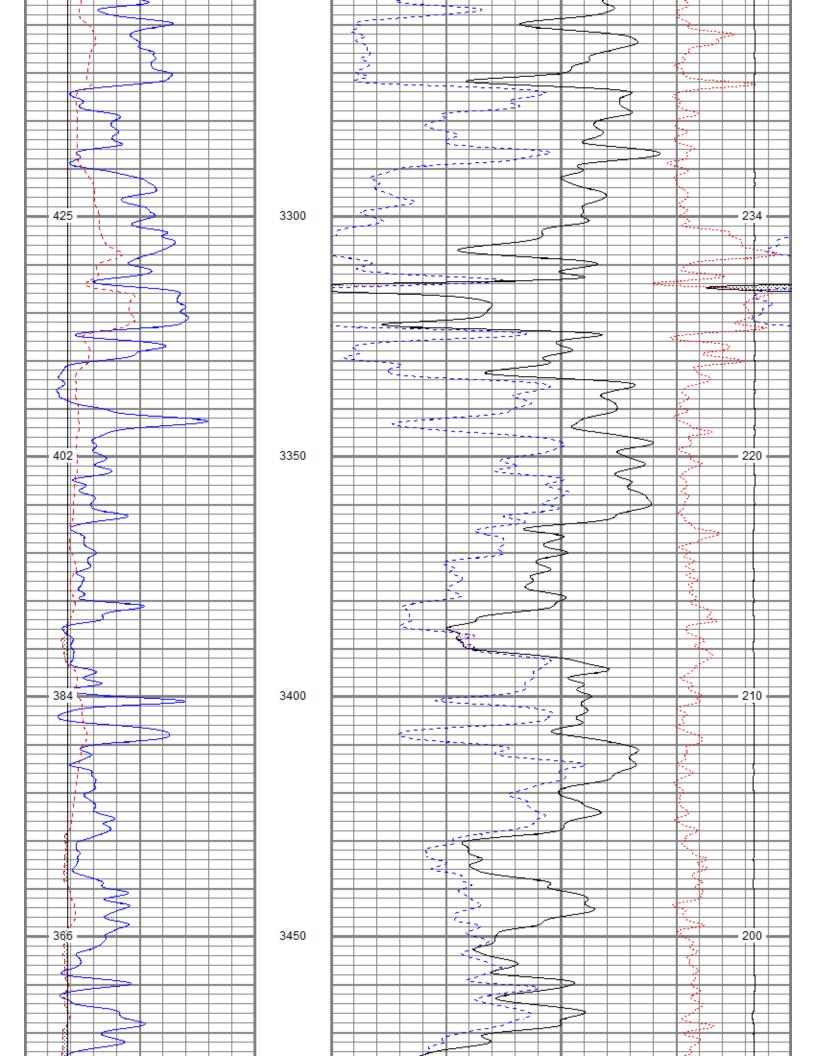


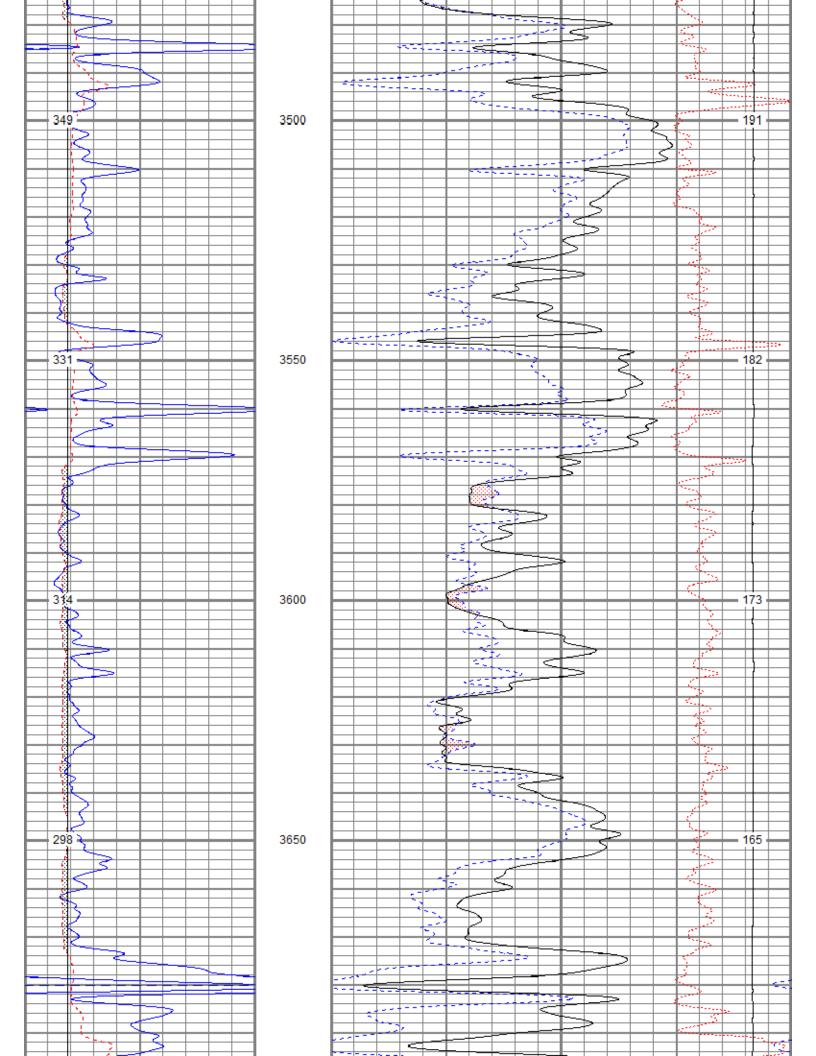


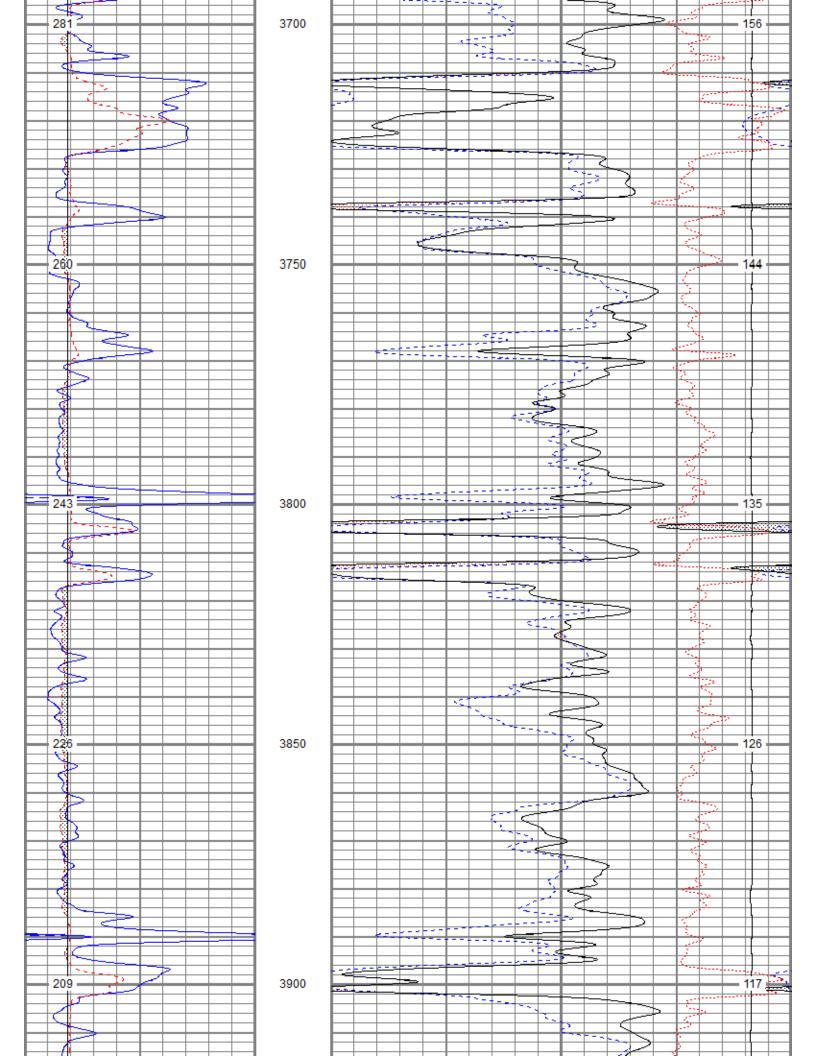


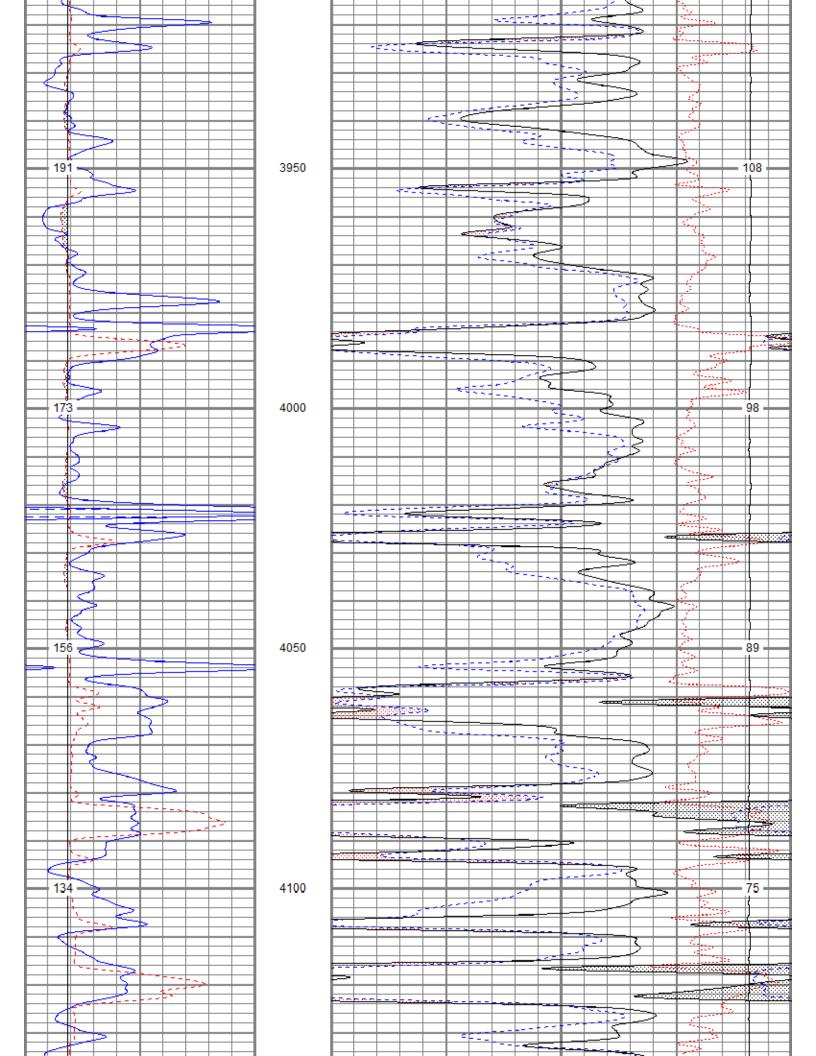


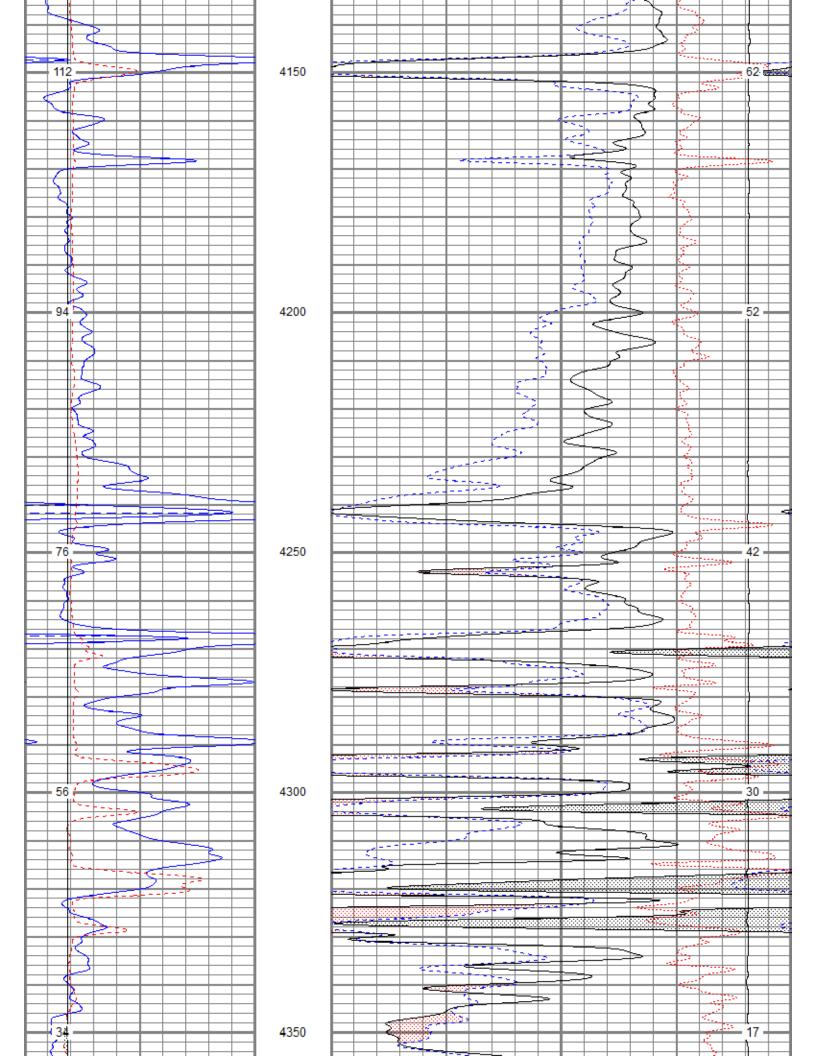


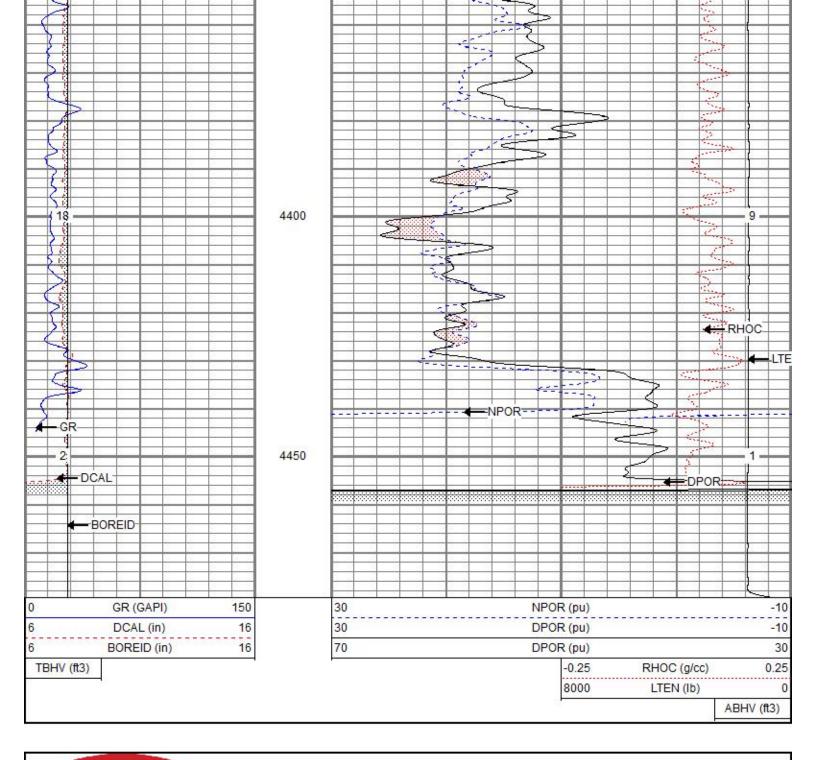




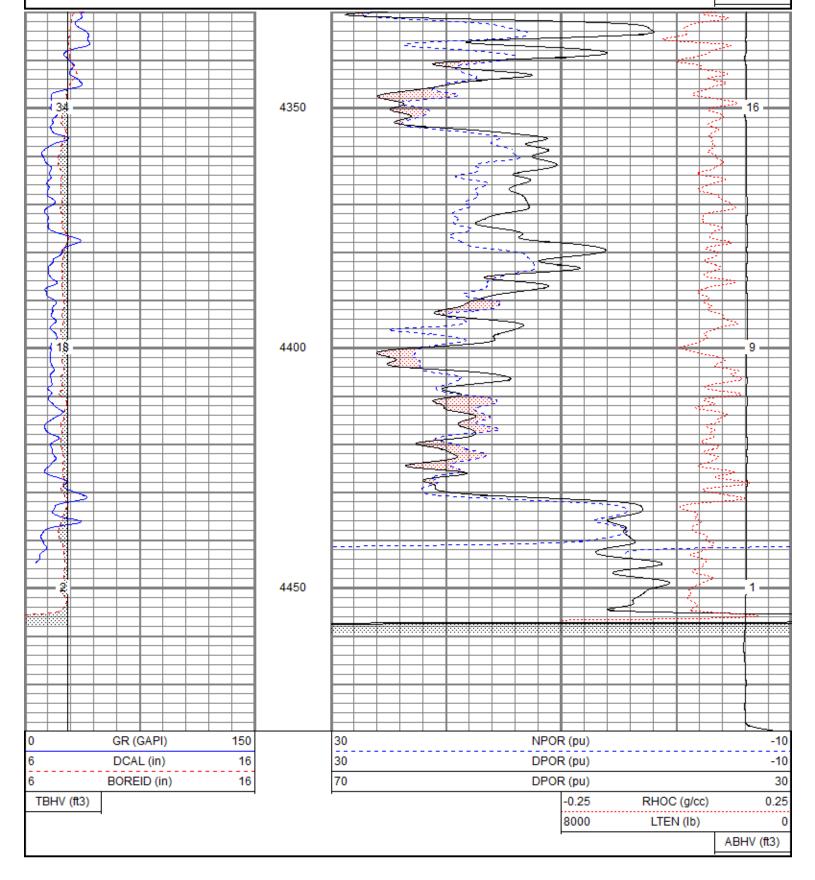








				Re	peat Pass	5	
Presen	t Pathname Itation Format It Creation	pass1.1 kcdnl Fri Jun 1	ow#1-33oh.db 0 19:07:35 2016 Feet scaled 1:24	0			
0	GR (GA	PI)	150	30	NPOR (pu)		-10
6	DCAL	(in)	16	30	DPOR (pu)		-10
6	BOREID	) (in)	16	70	DPOR (pu)		30
TBHV (f	t3)			12	-0.25	RHOC (g/cc)	0.25
					8000	LTEN (Ib)	C
					2-		ABHV (ft3)



Calibration Report Database File tcbarricklow#1-33oh.db Dataset Pathname pass1.1 Fri Jun 10 19:07:35 2016 Dataset Creation Dual Induction Calibration Report 080522-Probe Serial-Model: Surface Cal Performed: Mon Mar 14 11:26:37 2016 Downhole Cal Performed: Mon Mar 14 11:26:40 2016 After Survey Verification Performed: Mon Mar 14 11:26:42 2016

Surface Calibrat	ion	Readings			References		Res	sults
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	-0.040 -0.028	0.651	V V	0.000	400.000 464.000	- mmho/m mmho/m	578.981 602.582	22.871 16.690
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	-0.016 -0.025	0.653 0.747	V V	0.000 0.000	400.000 464.000	- mmho/m mmho/m	598.311 601.262	9.396 14.808
Downhole Calib	ration	Readings			References		Res	sults
	Zero	Cal		Zero	Cal		m	b'
Deep Medium LL3	6.834 -2.964	401.088 468.230 7.145 0.016 -7.248	mmho/m mmho/m V V V	13.778 1.850	400.855 466.869 750.000 12.000 3745.000	- mmho/m Ohm-m Ohm-m mmho-m	0.982 0.987	7.068 4.775
After Survey Ver	ification							
	Zero	Readings Cal		Zero	Targets Cal		Res m'	b'
Deep Medium LL3	0.000	0.000 0.000 0.000 0.000 0.000	mmho/m mmho/m Ohm-m Ohm-m	6.834 -2.964	401.088 468.230 750.000 12.000	- mmho/m Mmho/m Ohm-m Ohm-m	1.000 1.000	0.000 0.000
		0.000	mmho-m Compensated		3745.000	mmho-m		
	Sourc Maste Before		erformed: cation Performed: tion Performed:		2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4	2		
Master Calibratio		-						
		Density		I	Far Detector	Near Detect	or	
Magnesium Aluminum	I	1.750 2.650	g/cc g/cc		668.56 125.78	327.82 210.67		
		Spine Angle	= 75.17		Density/Spine	Ratio = 0.521		
		Size			Reading			
Small Ring Large Ring		7.35 14.00	in in		5695.86 9900.52			
Before Survey V	erification							
		Target			Measured			
			g/cc g/cc g/cc			g/cc g/cc g/cc		
After Survey Ver	ification							
		Target			Measured			
			g/cc g/cc g/cc			g/cc g/cc g/cc		

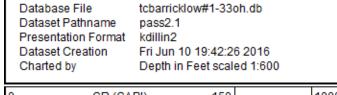
	Gamma Ray Ca	alibration Report
Serial Number: Tool Model: Performed:	2001 OH Thu Jan 21 09	:36:03 2016
Calibrator Value:	1.0	GAPI
Background Reading: Calibrator Reading:	0.0 1.0	cps cps
Sensitivity:	0.2400	GAPI/cps
	Neutron Calil	bration Report
Serial Number: Tool Model: Performed:	5108 PROBE Thu Jan 21 09	:36:17 2016
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

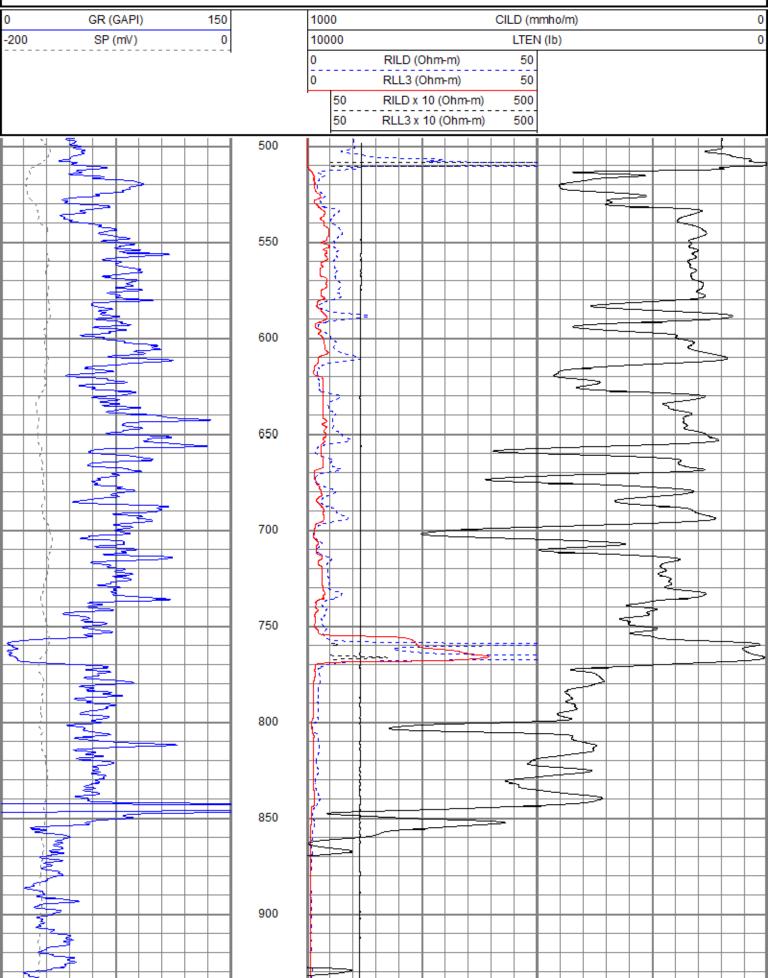
Sensor	Offset (ft)	Schematic	Description	Length (ft)		
NEU	38.26		CHD-None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
LSD DCAL	23.78 23.49	-/	CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
SSD HEADVOLT	23.24 21.47					
SP CILD	10.60 10.60	7	–DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					

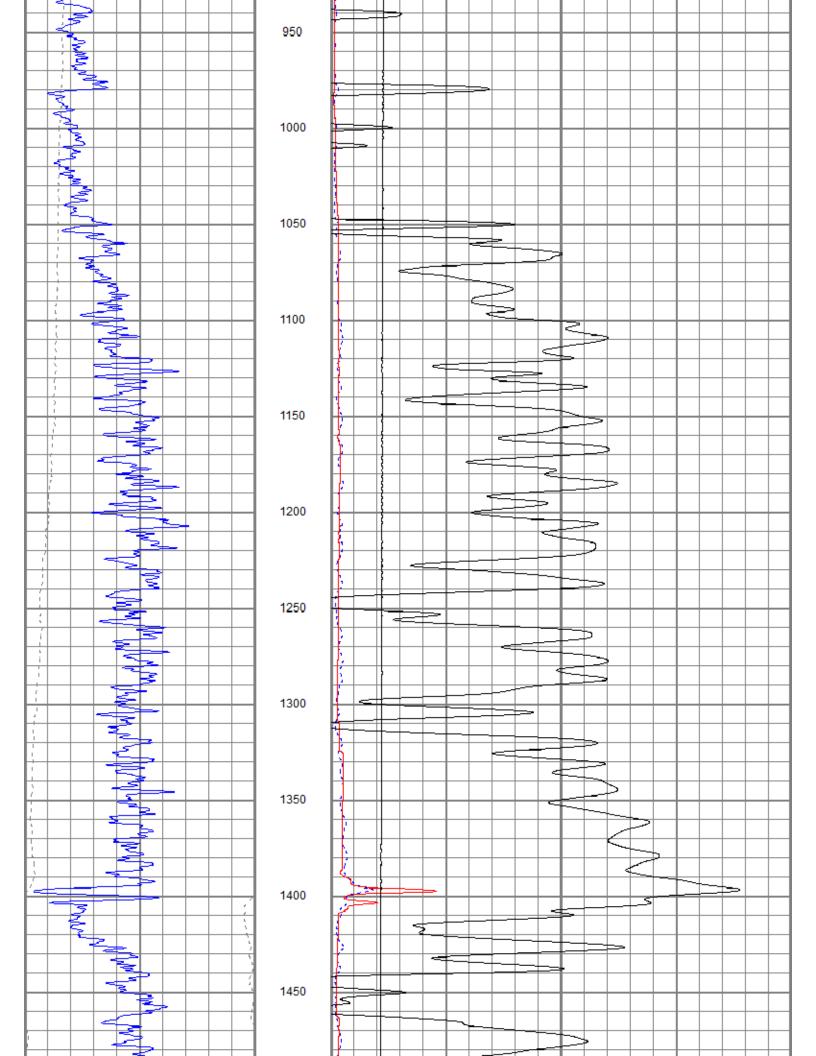
Dataset:	tcbarricklow#1-33oh.db: field/well/run1/pass1.1
Total length:	40.39 ft
Total weight:	676.00 lb
O.D.:	4.00 in

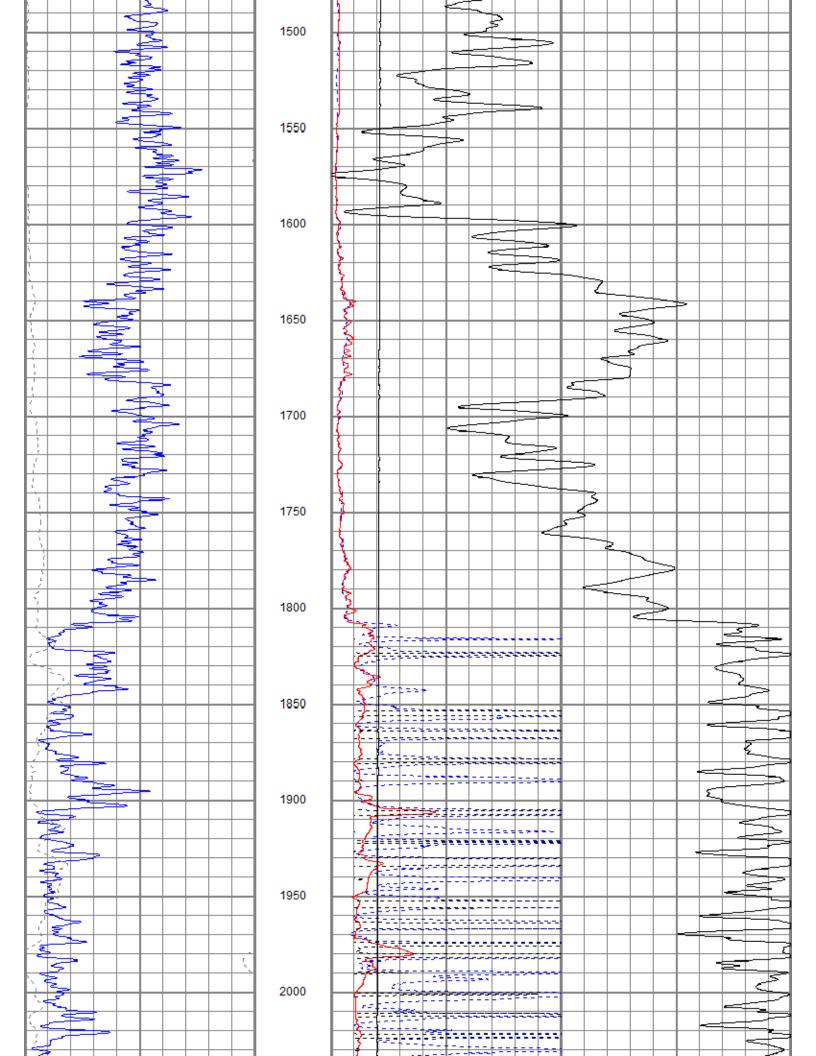
Equipment Number Location Recorded By Witnessed By	Density / Viscosity pH / Fluid Loss Source of Sample Rm @ Meas. Temp Rmf @ Meas. Temp Rmc @ Meas. Temp Source of Rmf / Rmc Source of Rmf / Rmc Time Circulation Stopped Time Circulation Stopped Time Logger on Bottom	Well     Well       Field     Barrie       Company     Triple Crown Operating, LLC.       Field     Barricklow #1-33       County     Ness       Barricklow #1-33     Field       Barricklow     County       Ness     Location:       Vell     Barricklow       County     Ness       County     Ness       Date     Cog Measured From       Date     Field       Date     6-       Run Number     6-       Depth Logger     6-       Bottom Logged Interval     6-       Bottom Logger     4       Bit Size     5-/8       Bit Size     5-/8	Compar						
Mr. Rod Andersen	8.9/50 8.5/12 Pit 2.8@76degf 2.1@76degf 2.1@76degf 3.36@76degf 1.77@120degf 3:300 p.m. 6:30 p.m. 6:30 p.m. tions are opinions based on infer	cklow #1-33         State Kansas         API #: 15 135 25911       Other Services         API #: 15 135 25911       Other Services         API #: 15 135 25911       Other Services         ML       BCS         TWP 20S RGE 22W       Elevation         Ground Level Elevation       2179'       K.B. 2187'         KB 8' AGL       Elevation       2179'         KB 8' AGL       Elevation         KB 8' AGL       Elevation         KB 8' AGL       Elevation         KB 2187'       C.F. 2186'         G.L. 2179'       C.F. 2186' <t< td=""><td>erating, LLC.</td></t<>	erating, LLC.						
	ncurred or sustained by anyone re	the case of gross or willful negligence on our part, be liable or responsible for iting from any interpretation made by any of our officers, agents or employees our general terms and conditions set out in our current Price Schedule.							
South of Ness City to 20 Rd. East to Z Rd. 1 South, 1 East, 1/2 South West into.									
G	GEMINE Main Pass								

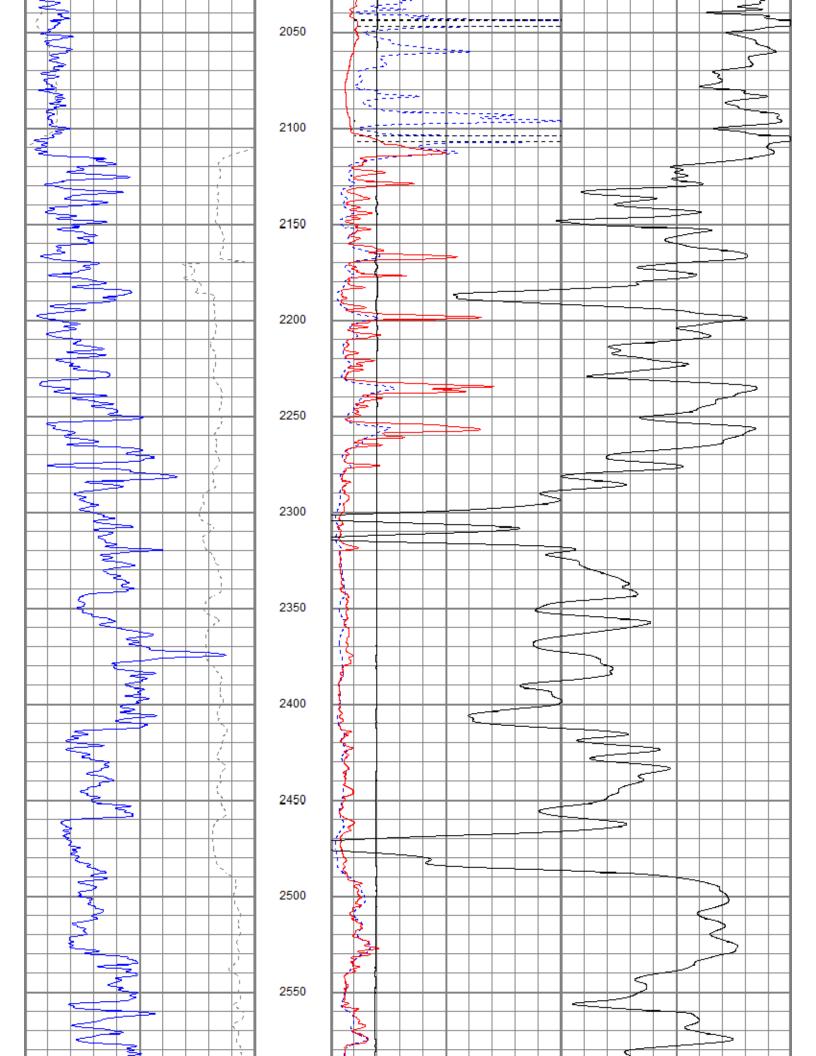
-

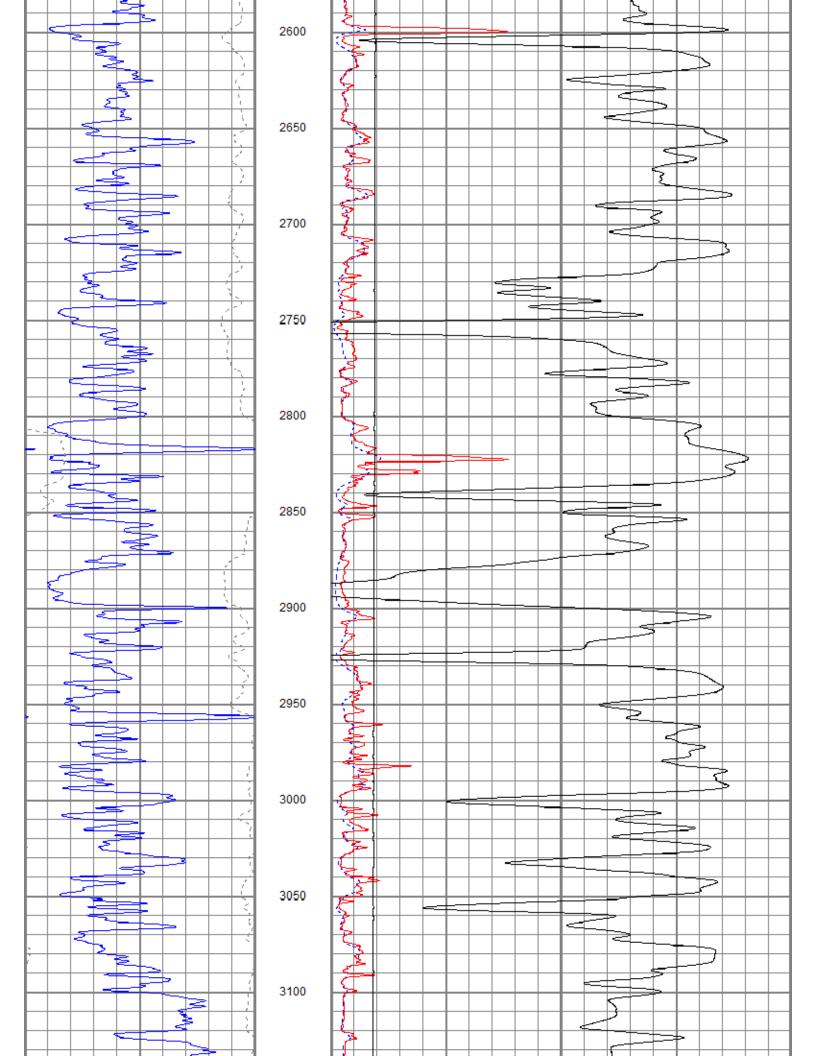


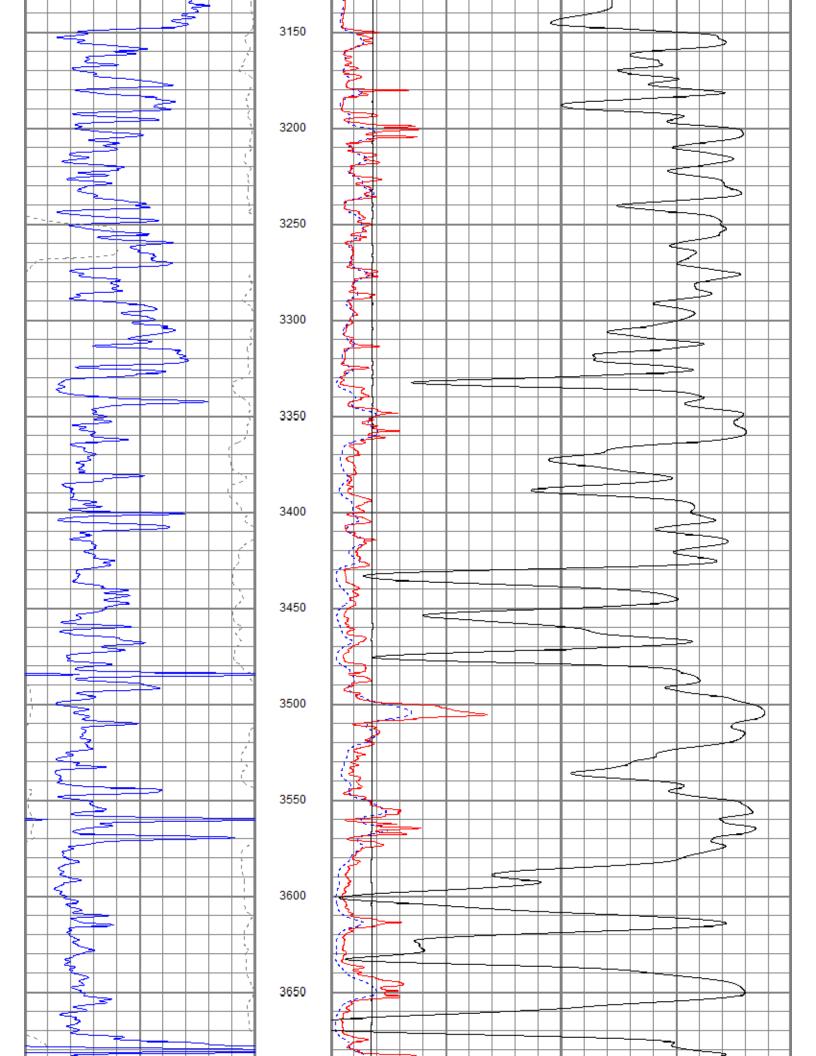


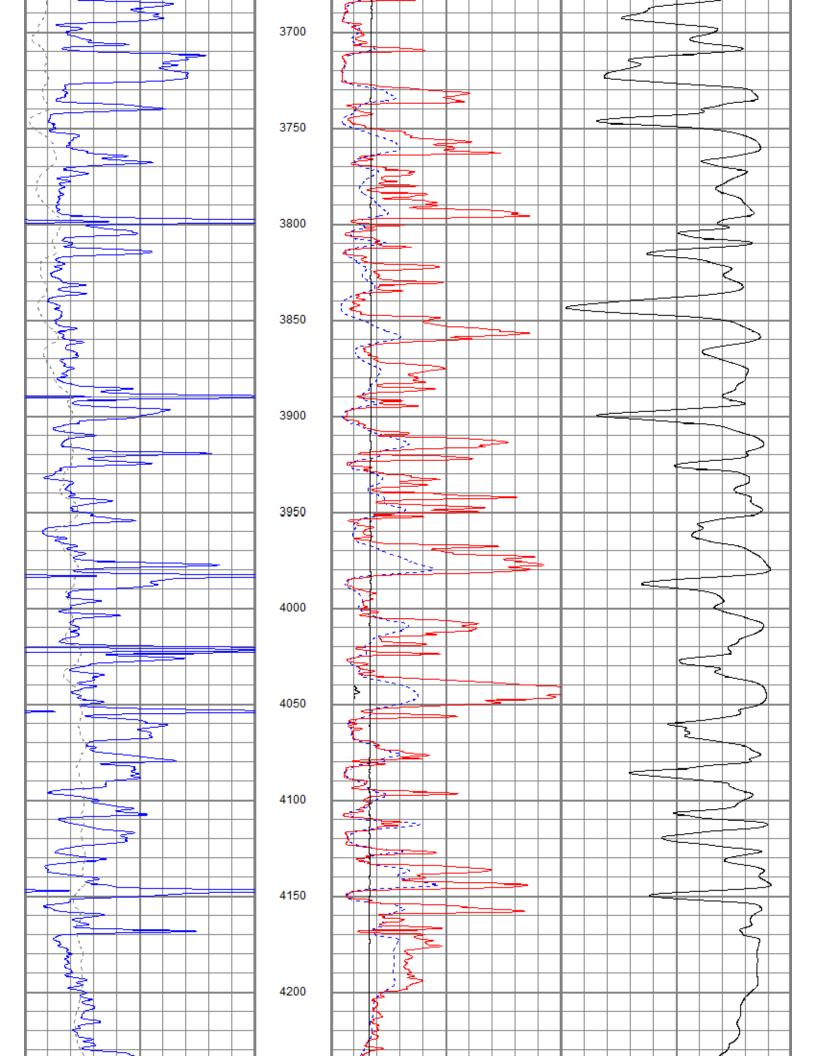


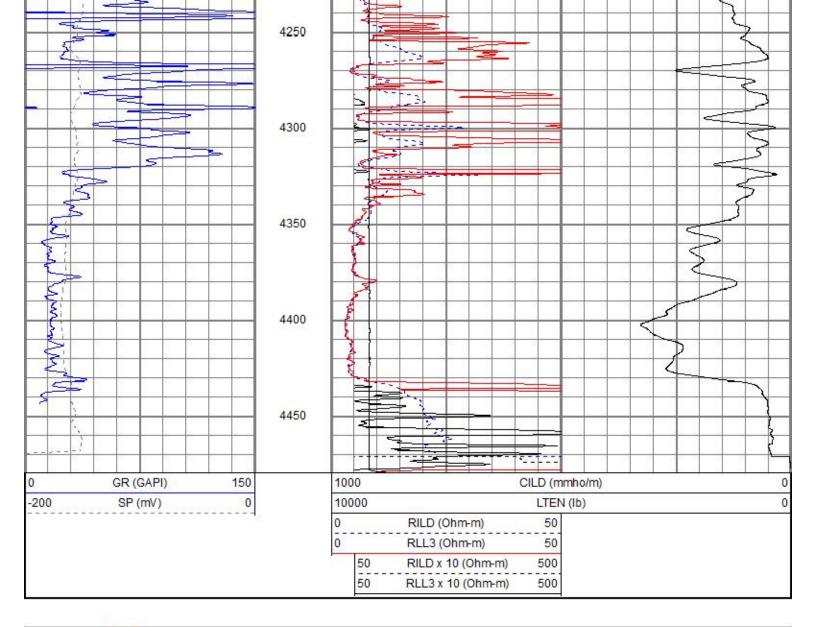






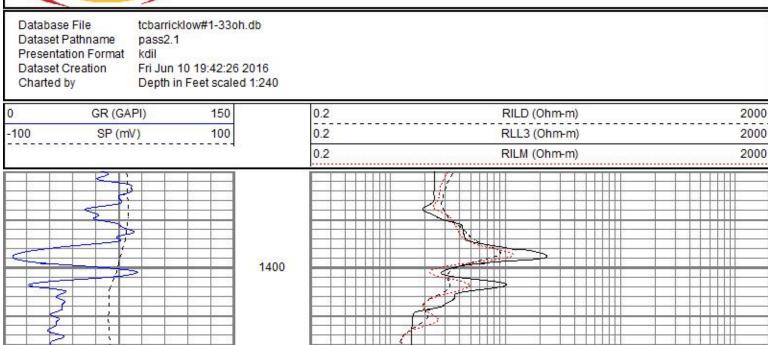




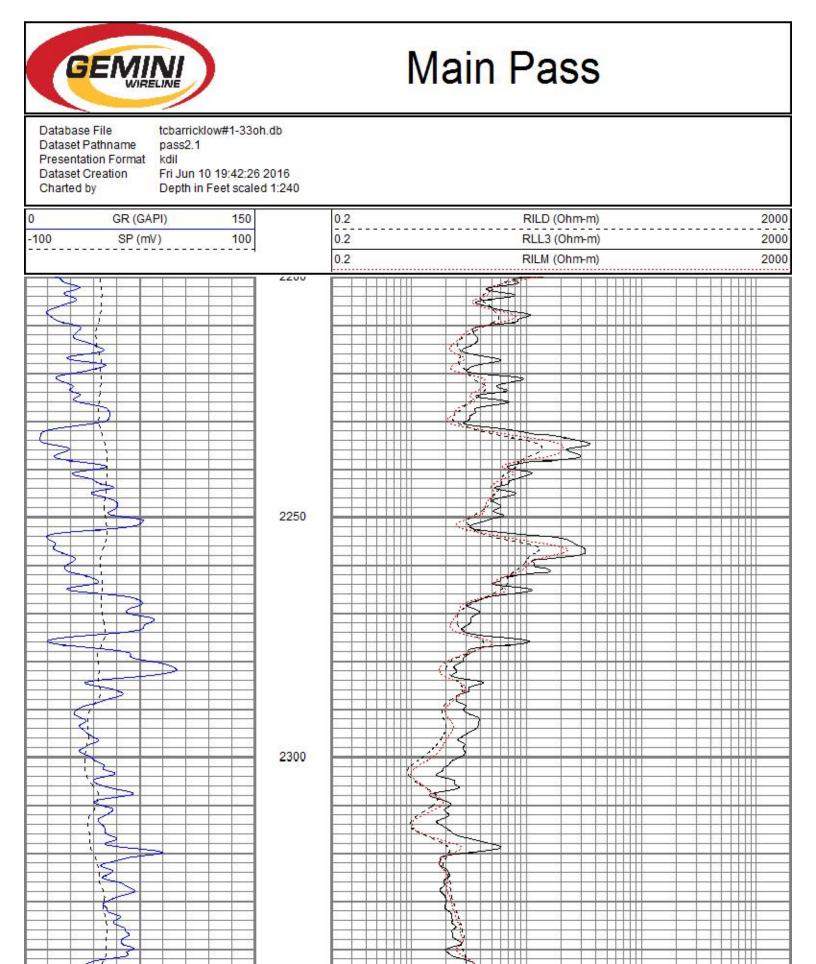


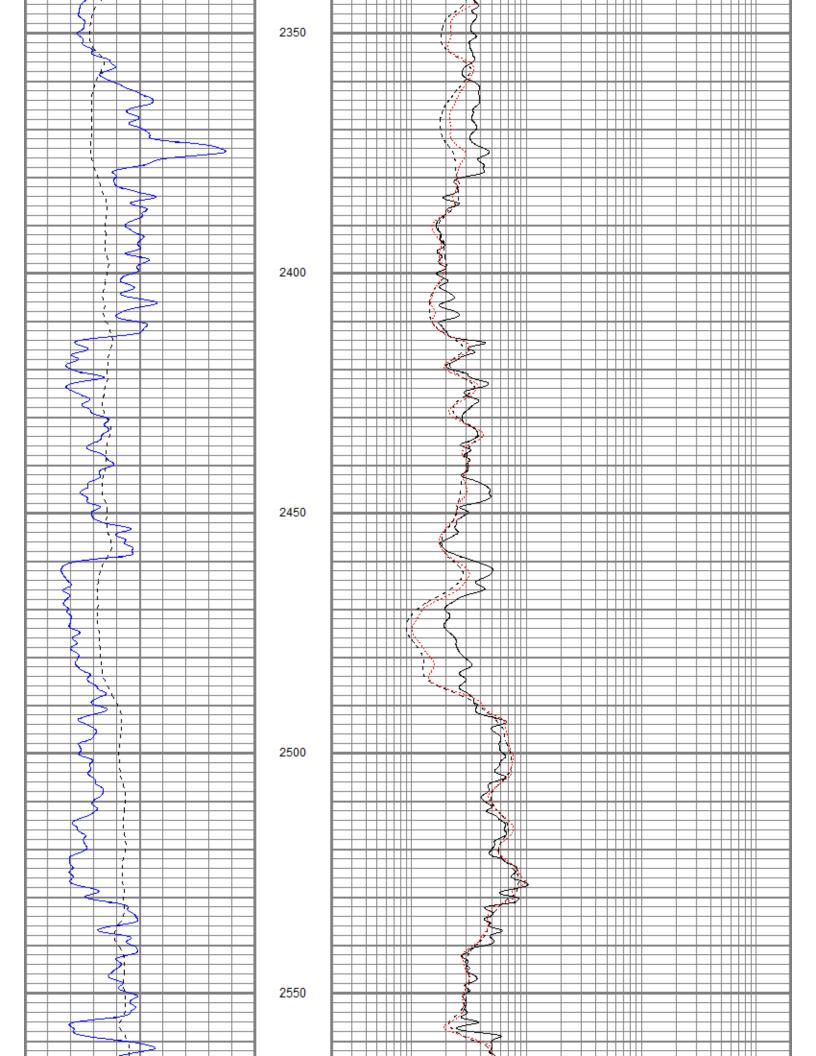


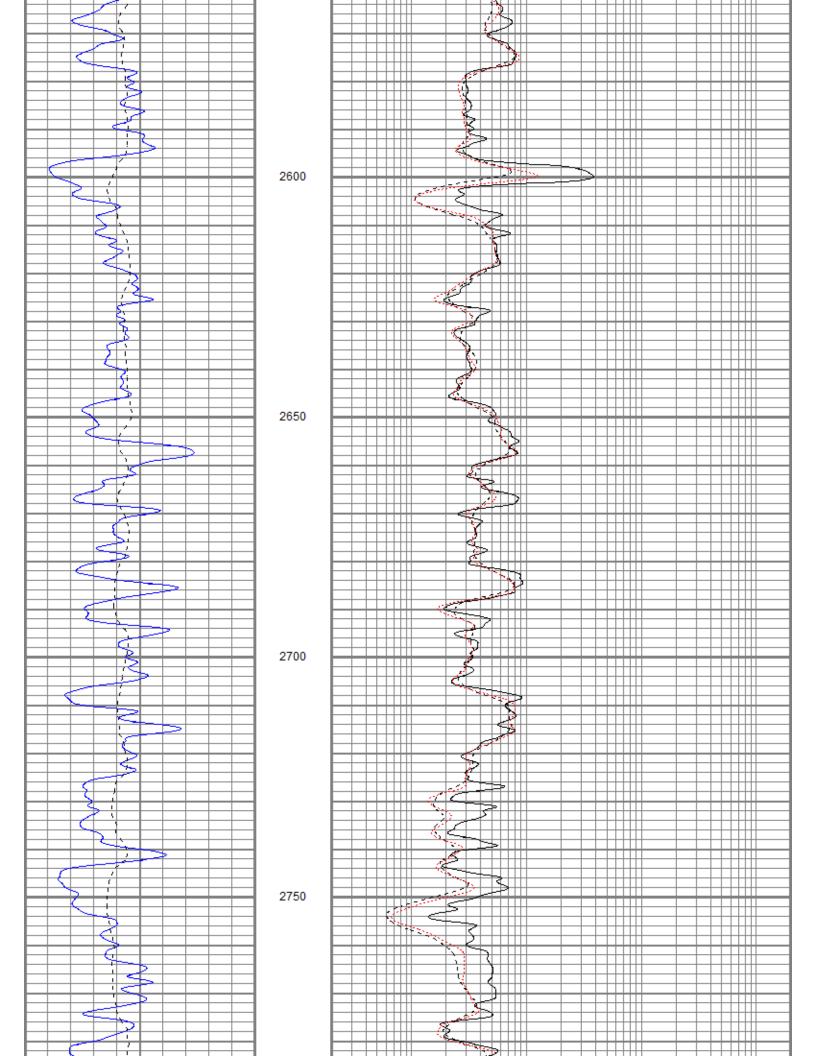
## Main Pass

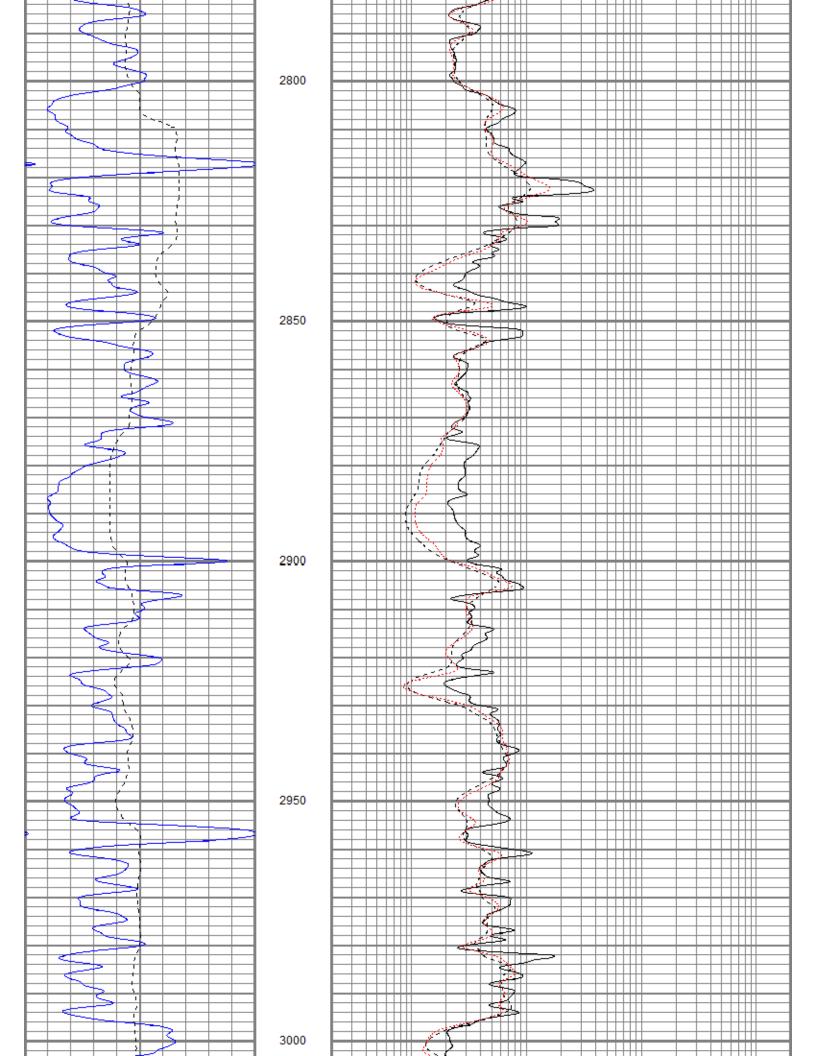


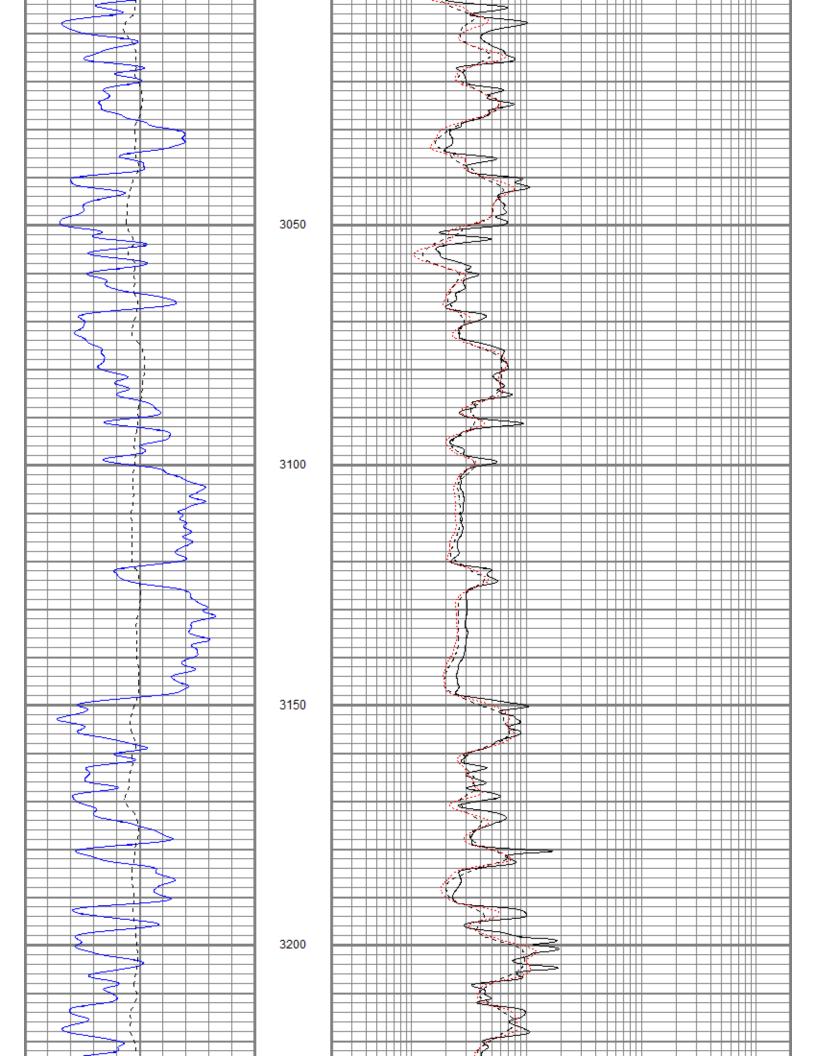


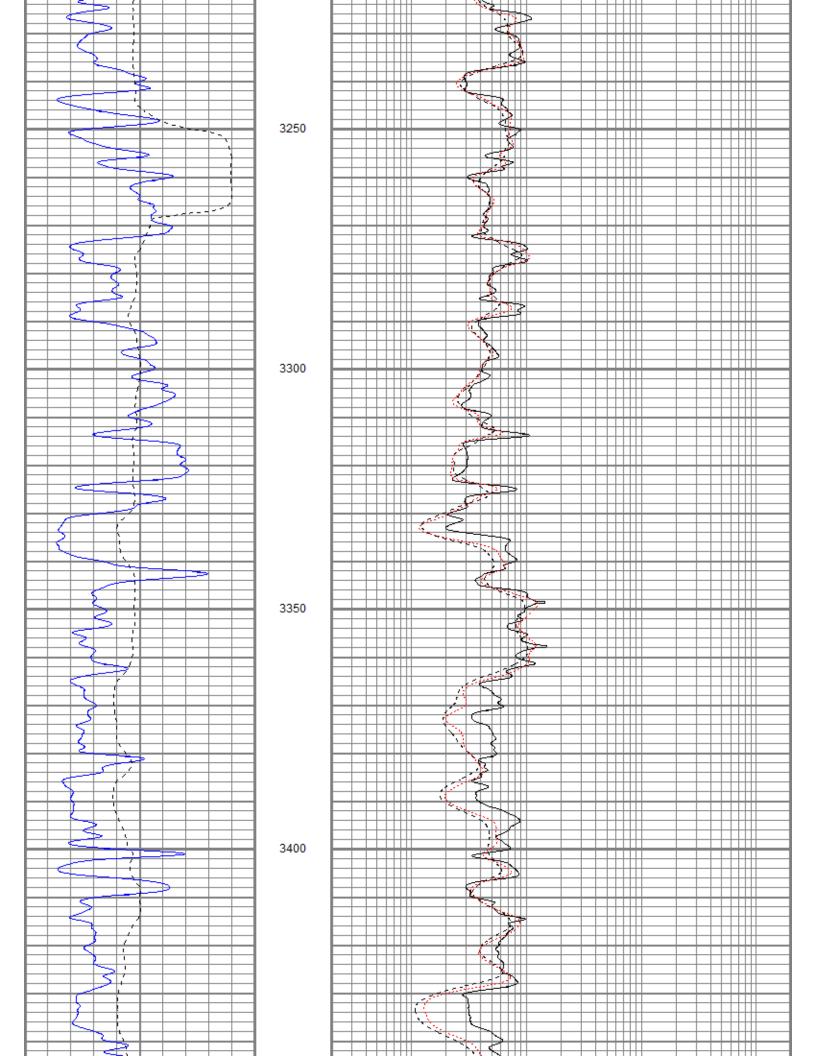


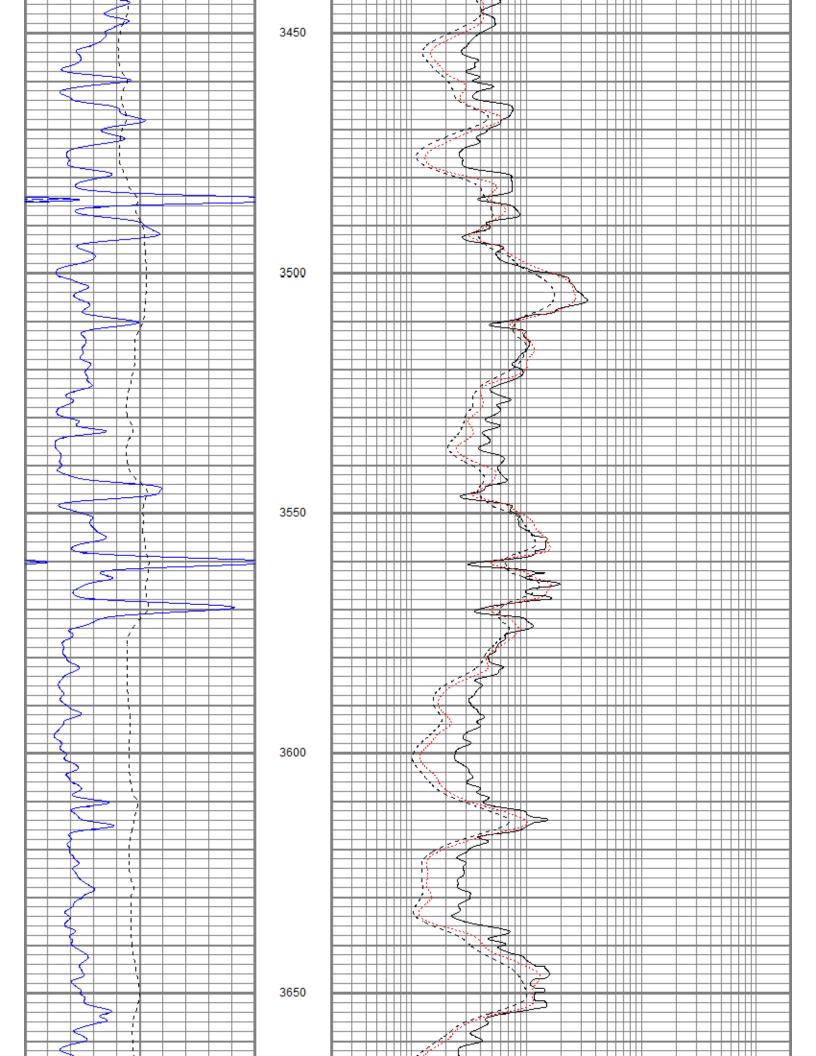


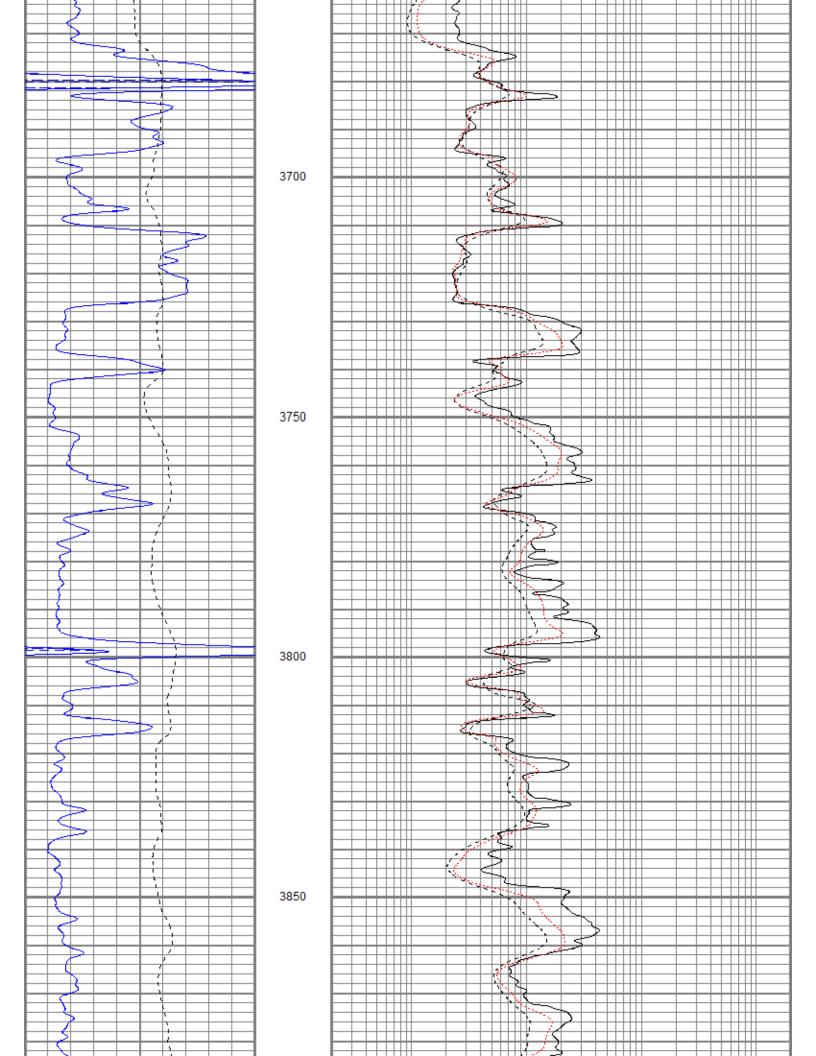


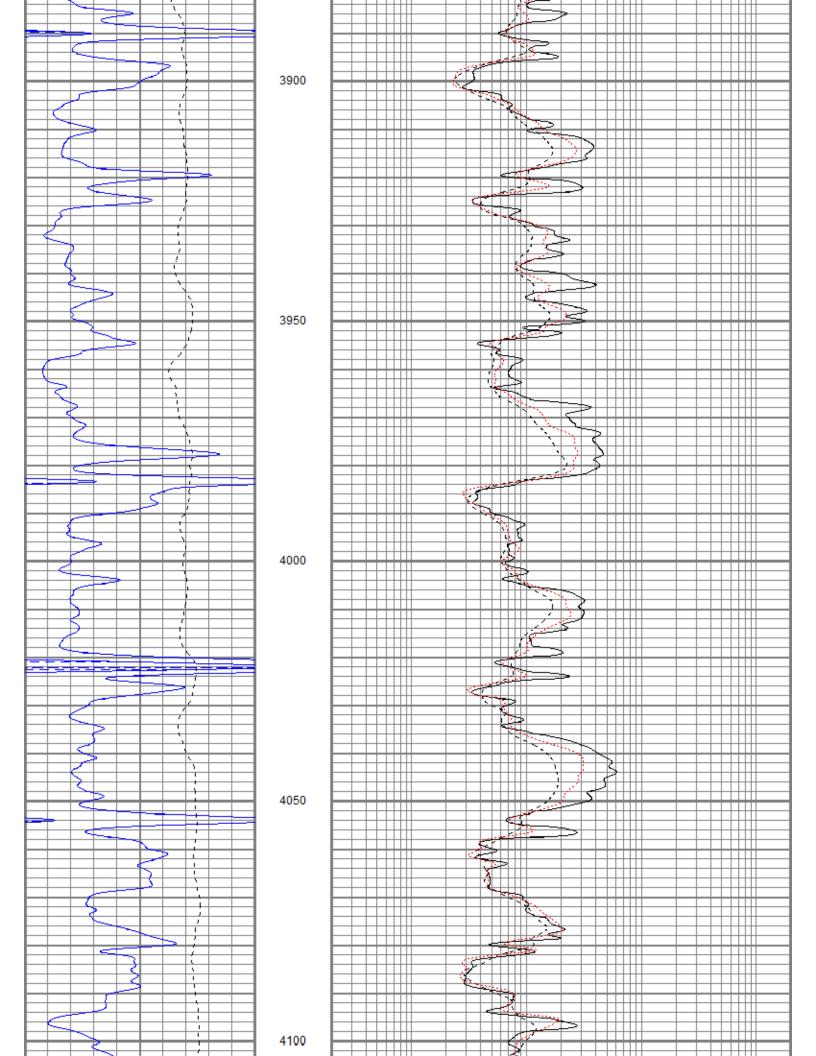


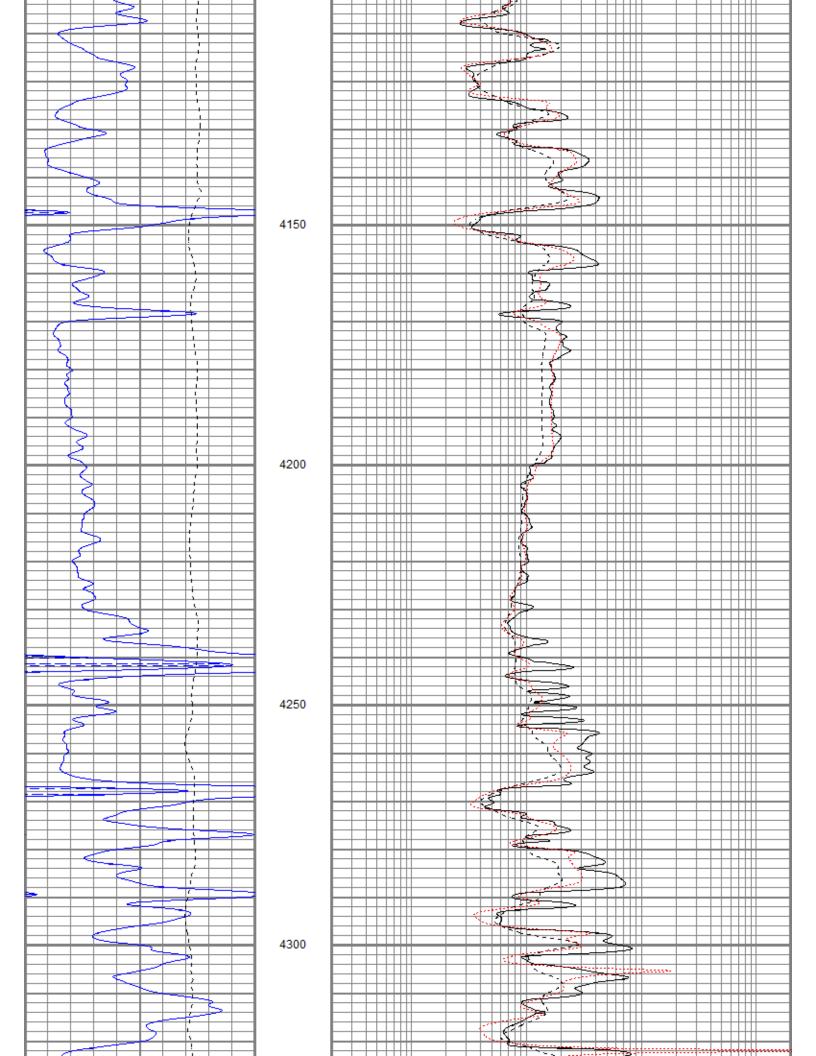


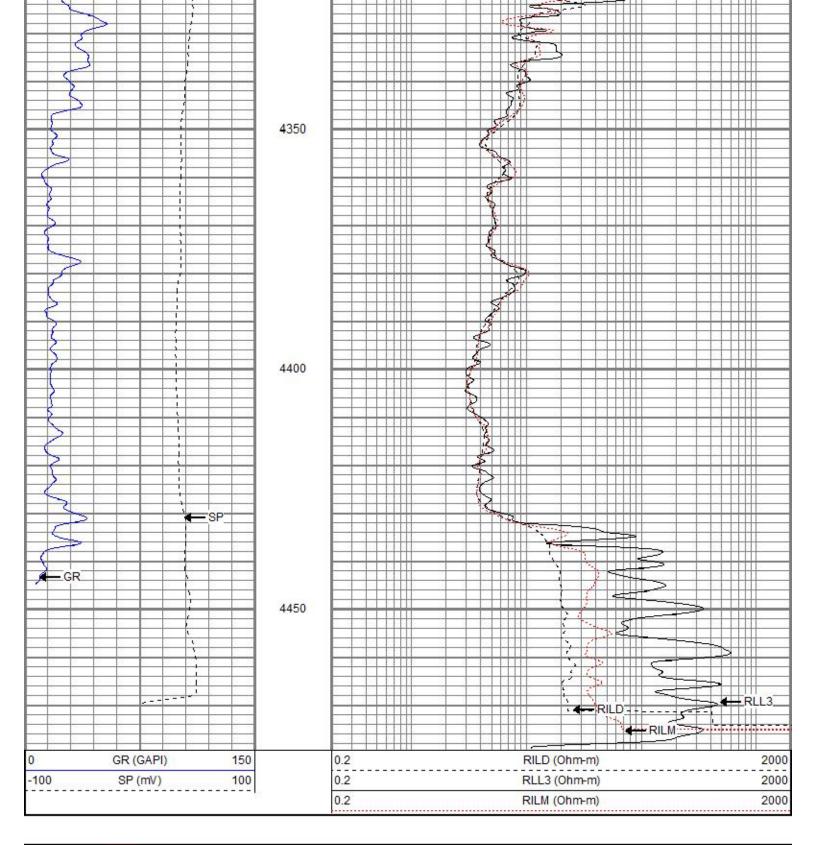




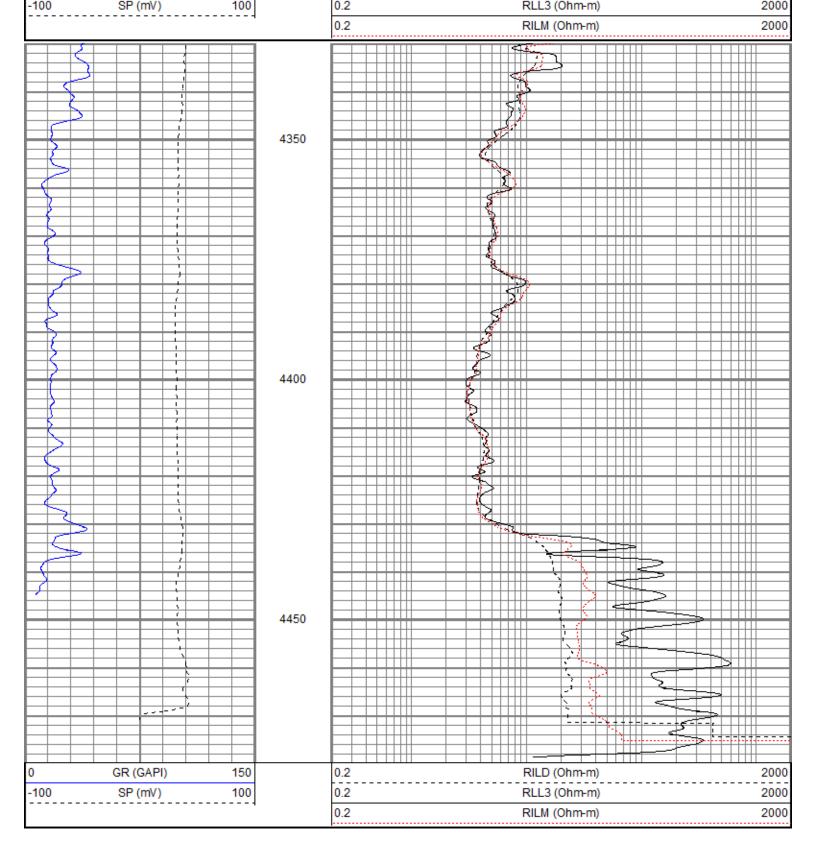








GEMI		Re	peat Pass	
Database File Dataset Pathname Presentation Format Dataset Creation Charted by	tcbarricklow#1-33oh.db pass1.1 kdil Fri Jun 10 19:07:35 2016 Depth in Feet scaled 1:240	0		
) GR (GA	PI) 150	0.2	RILD (Ohm-m)	2000



	Calibra	ition Report	
Database File Dataset Pathname Dataset Creation	tcbarricklow#1-33oh.db pass1.1 Fri Jun 10 19:07:35 2016		
	Dual Induction	Calibration Report	
	Serial-Model:	080522-Probe	
	Surface Cal Performed:	Mon Mar 14 11:26:37 2016	
	Downhole Cal Performed:	Mon Mar 14 11:26:40 2016	
	After Survey Verification Performed:	Mon Mar 14 11:26:42 2016	
Surface Calibrat	ion		

		Readings			References		IX65	uits
Loop:	Air	Loop		Air	Loop		m	b
Deep Medium	-0.040 -0.028	0.651 0.742	V V	0.000 0.000	400.000 464.000	mmho/m mmho/m	578.981 602.582	22.871 16.690
Internal:	Zero	Cal		Zero	Cal		m	b
Deep Medium	-0.016 -0.025	0.653 0.747	V V	0.000 0.000	400.000 464.000	mmho/m mmho/m	598.311 601.262	9.396 14.808
Downhole Calib	oration	Readings			References		Res	ults
	Zero	Cal		Zero	Cal		m'	b'
Deep Medium LL3	6.834 -2.964	401.088 468.230 7.145 0.016 -7.248	mmho/m mmho/m V V V	13.778 1.850	400.855 466.869 750.000 12.000 3745.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	0.982 0.987	7.068 4.775
After Survey Ve	rification	Readings			Targets		Res	ults
	Zero	Cal		Zero	Cal		m	b'
Deep Medium LL3	0.000 0.000	0.000 0.000 0.000 0.000 0.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	6.834 -2.964	401.088 468.230 750.000 12.000 3745.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.000 1.000	0.000 0.000
			Compensate	d Density Calib	bration Report			
	Sourc Maste Before				bration Report 2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4	2		
Master Calibrati	Sourc Maste Before After S	e / Verifier: r Calibration P e Survey Verific	erformed: ation Performed		2388DHT-DHT csv j12 / csv j12	2		
Master Calibrati	Sourc Maste Before After S	e / Verifier: r Calibration P e Survey Verific	erformed: ation Performed	d:	2388DHT-DHT csv j12 / csv j12	2	ctor	
Master Calibrati Magnesiun Aluminum	Sourc Maste Before After S	e / Verifier: r Calibration P 9 Survey Verific 9urvey Verificat	erformed: ation Performed	d:	2388DHT-DHT csv j12 / csv j1: Fri Aug 01 09:4	2 45:19 2014	2 cps	
Magnesiun	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verificat Survey Verificat Density 1.750	erformed: cation Performed: ion Performed: g/cc g/cc	d:	2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4 Far Detector 668.56	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verificat Urvey Verificat Density 1.750 2.650	erformed: cation Performed: ion Performed: g/cc g/cc	d:	2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4 Far Detector 668.56 125.78	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verific Survey Verificat Density 1.750 2.650 Spine Angle :	erformed: cation Performed: ion Performed: g/cc g/cc	d:	2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun Aluminum Small Ring	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verificat Density 1.750 2.650 Spine Angle = Size 7.35	erformed: :ation Performed: ion Performed: g/cc g/cc = 75.17 in	d:	2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine Reading 5695.86	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun Aluminum Small Ring Large Ring	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verificat Density 1.750 2.650 Spine Angle = Size 7.35	erformed: :ation Performed: ion Performed: g/cc g/cc = 75.17 in	d:	2388DHT-DHT csv j12 / csv j12 Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine Reading 5695.86	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun Aluminum Small Ring Large Ring	Sourc Maste Before After S	e / Verifier: r Calibration P Survey Verificat Density 1.750 2.650 Spine Angle : Size 7.35 14.00	erformed: :ation Performed: ion Performed: g/cc g/cc = 75.17 in	d:	2388DHT-DHT csv j12 / csv j1: Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine Reading 5695.86 9900.52	2 45:19 2014 Near Detec 327.8 210.6	2 cps	
Magnesiun Aluminum Small Ring Large Ring	Sourc Maste Before After S ion	e / Verifier: r Calibration P Survey Verificat Density 1.750 2.650 Spine Angle : Size 7.35 14.00	erformed: ation Performed: ion Performed: g/cc g/cc = 75.17 in in g/cc g/cc	d:	2388DHT-DHT csv j12 / csv j1: Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine Reading 5695.86 9900.52	2 45:19 2014 Near Detec 327.8 210.6 Ratio = 0.521	2 cps	
Magnesiun Aluminum Small Ring Large Ring Before Survey V	Sourc Maste Before After S ion	e / Verifier: r Calibration P Survey Verificat Density 1.750 2.650 Spine Angle : Size 7.35 14.00	erformed: ation Performed: ion Performed: g/cc g/cc = 75.17 in in g/cc g/cc	d:	2388DHT-DHT csv j12 / csv j1: Fri Aug 01 09:4 Far Detector 668.56 125.78 Density/Spine Reading 5695.86 9900.52	2 45:19 2014 Near Detec 327.8 210.6 Ratio = 0.521	2 cps	

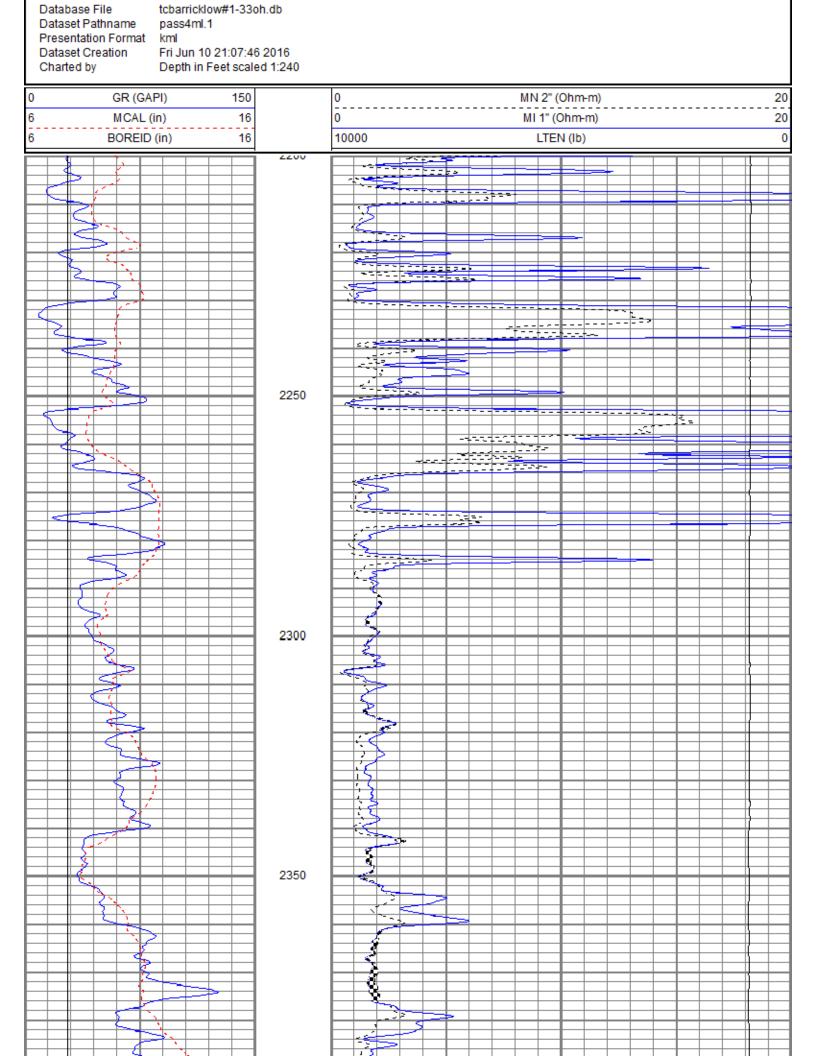
Gamma Ray Calibration Report

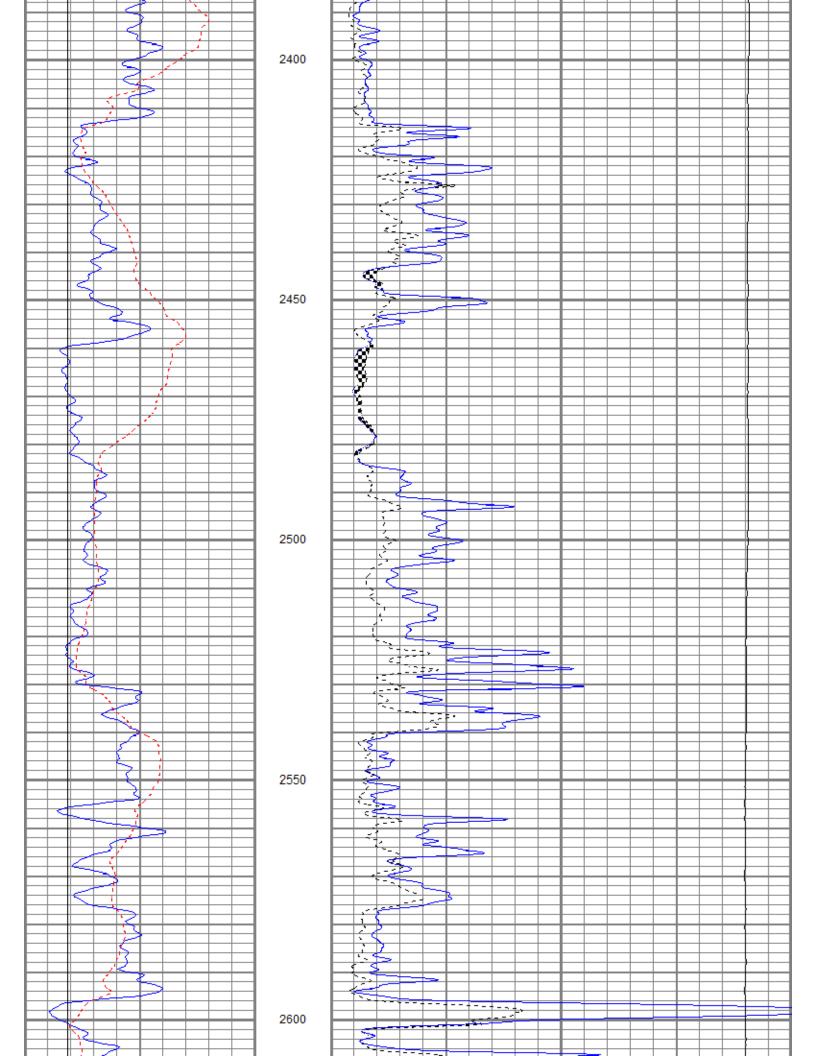
Serial Number: Tool Model: Performed:	2001 OH Thu Jan 21 09	:36:03 2016	
Calibrator Value:	1.0	GAPI	
Background Reading: Calibrator Reading:	0.0 1.0	cps cps	
Sensitivity:	0.2400	GAPI/cps	
	Neutron Calil	pration Report	
Serial Number: Tool Model: Performed:	5108 PROBE Thu Jan 21 09	:36:17 2016	
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

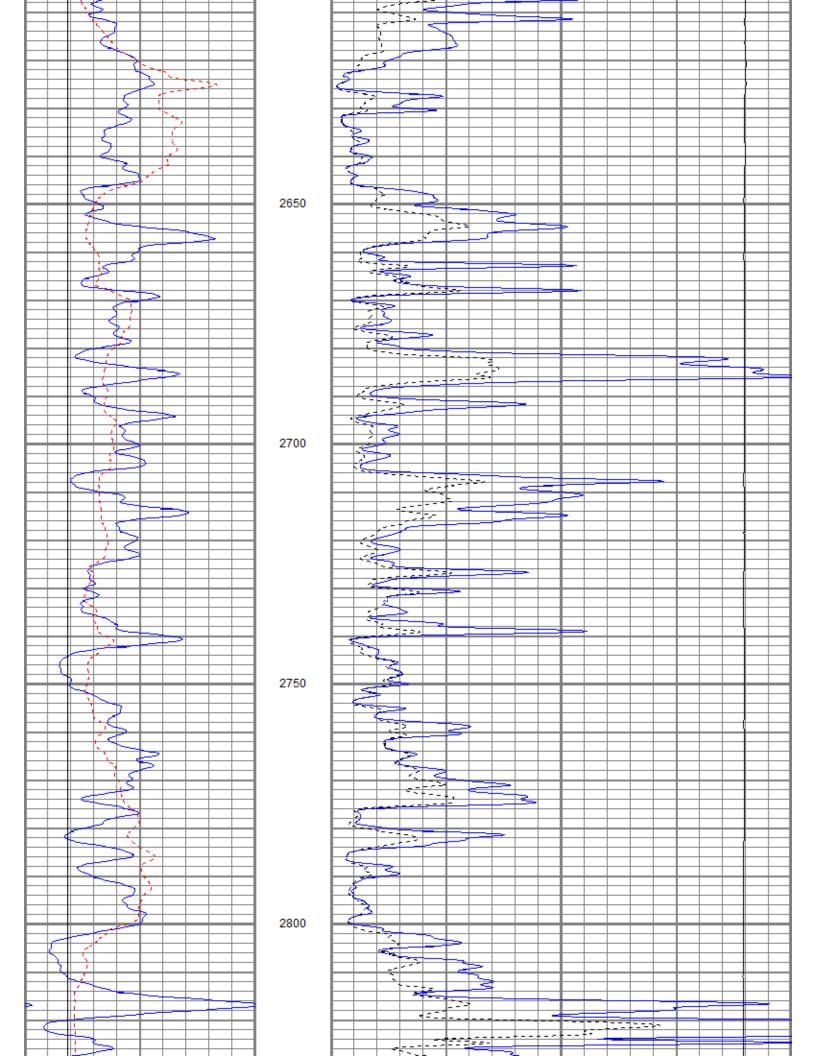
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (Ib)
NEU	38.26		CHD-None	0.75	1.50	5.00
NEU	J0.20		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	3.25	40.00
	00.70		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD DCAL	23.78 23.49	7				
SSD HEADVOLT	23.24 21.47	ť/	1			
SP CILD	10.60 10.60	7	DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILM	6.89					
RLL3	1.70					
		Dataset: tcba	rricklow#1-33oh.db: field/well/run1/pass1.1			

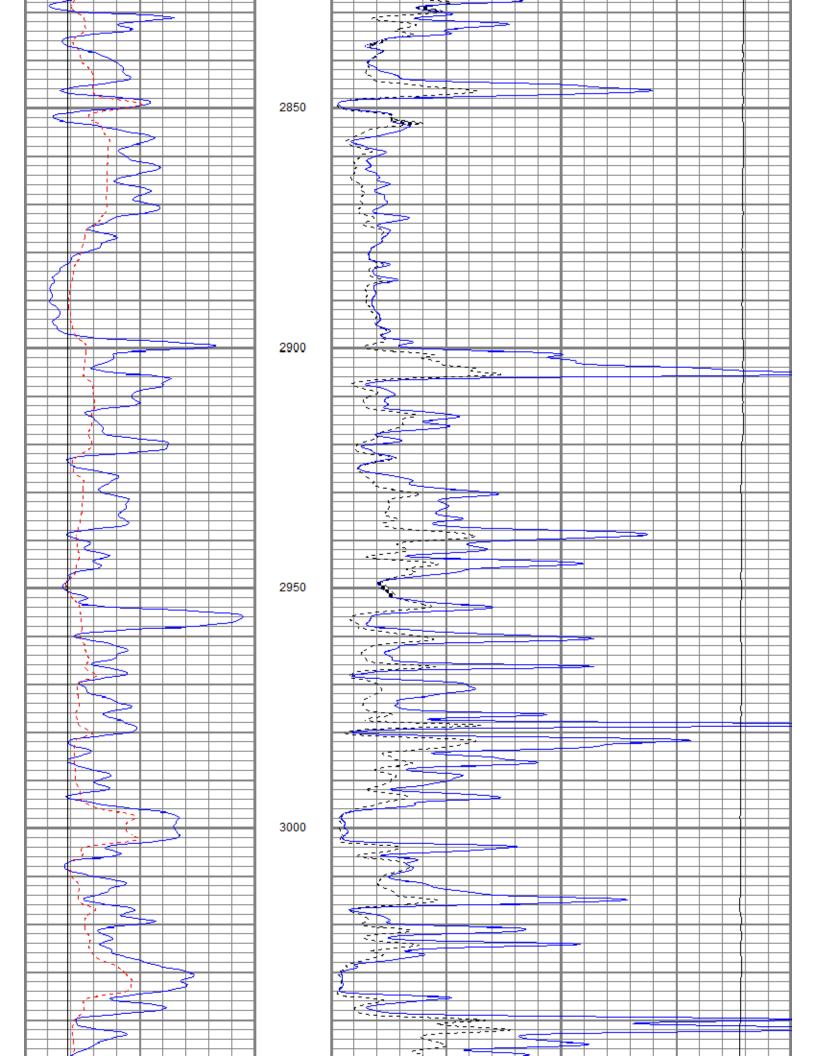
l otal length:	40.39 ft	
Total weight:	676.00 lb	
O.D.:	4.00 in	

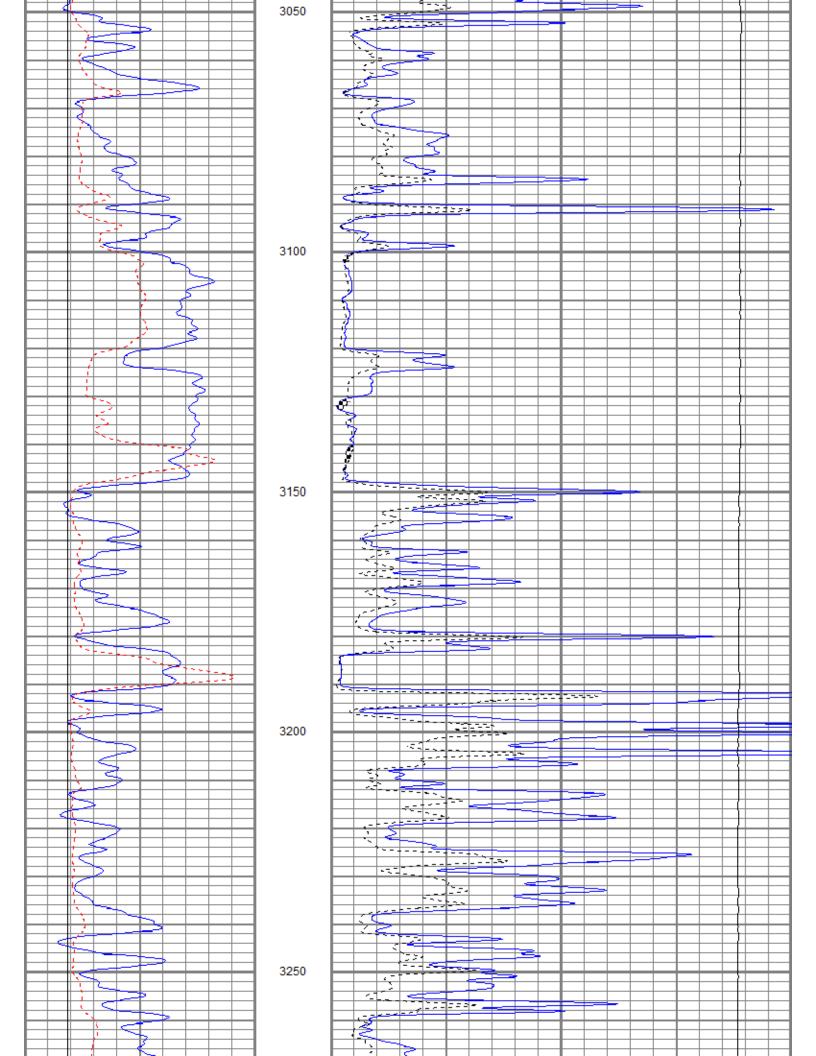
Location Recorded By Witnessed By	Equipment Number	Time Logger on Bottom	Time Circulation Stopped	Bm @ BHT	Rmc @ Meas. Temp	Rmf@Meas.Temp	Rm @ Meas. Temp	Source of Sample	pH / Fluid Loss	Density / Viscosity	Type Fluid in Hole	Bit Size	Casing Logger	Casing Driller	Top Log Interval	Bottom Logged Interval	Depth Logger	Depth Driller	Run Number	Date	Company Well Field County Coun	Ba Ne	iple Cr arricklo arricklo ass ansas	ow#1-:	County	Field	Well	Compa	WIRELIN	GEMIN	
	T127	8:00 p.m.					2.8@76degf	Pit	8.5/12		Chemical	7 7/8"		8 5/8" @ 513'	2200'	4460'	4480	4480'	Two	6-10-16	Ground Level Elevation 2179' K.B. 2187' KB 8' AGL D.F. 2186' G.L. 2179'	Elevation		API # : 15 135 25911 Other Services CDNL	Ness State Kansas	Barricklow	Barricklow #1-33	Company Triple Crown Operating, LLC.	LOG	RESISTIVITY	
any	All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.										222																				
										1	Ea	asi						1 \$	So	out	City to h, 1 Ea into.				ıth						
	GI	El	M																		Ma	ir	า	Pa	as	S					

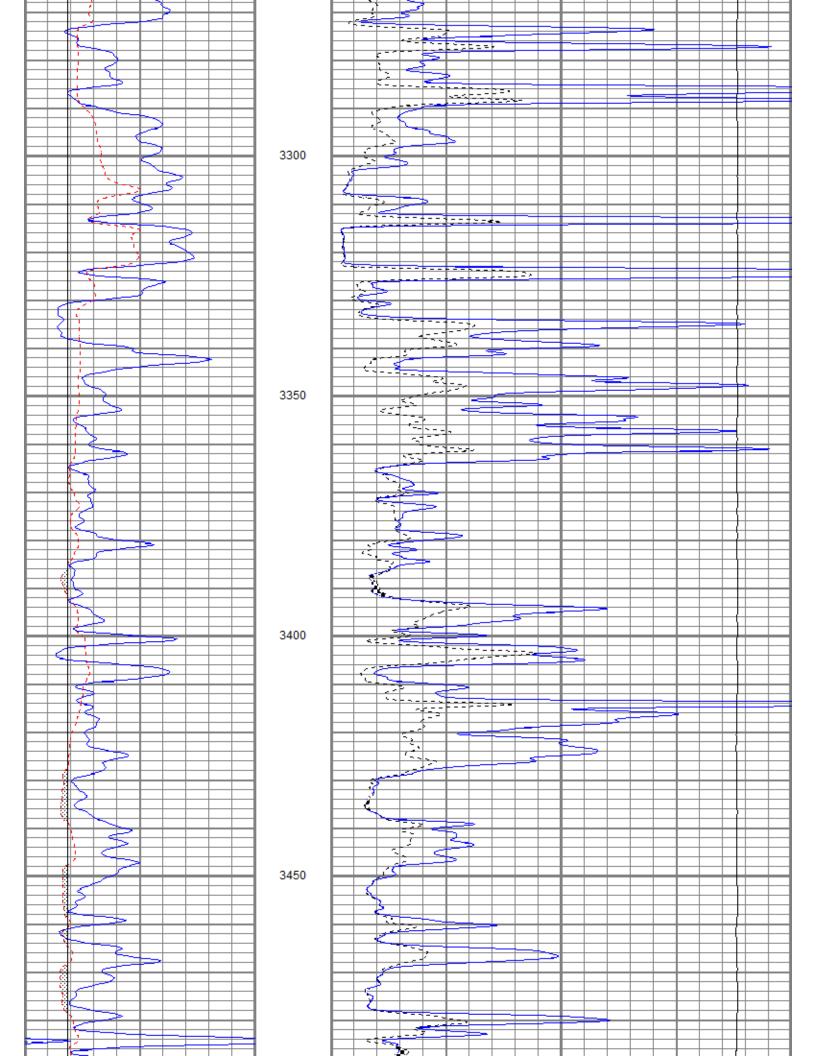


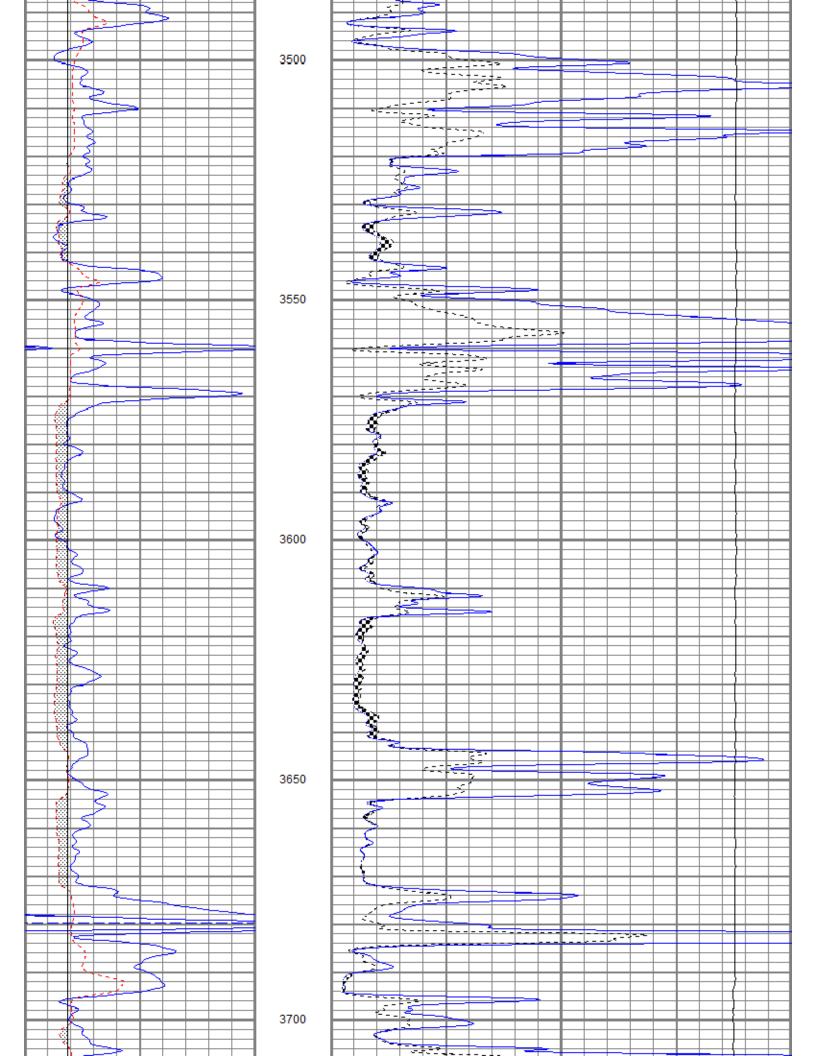


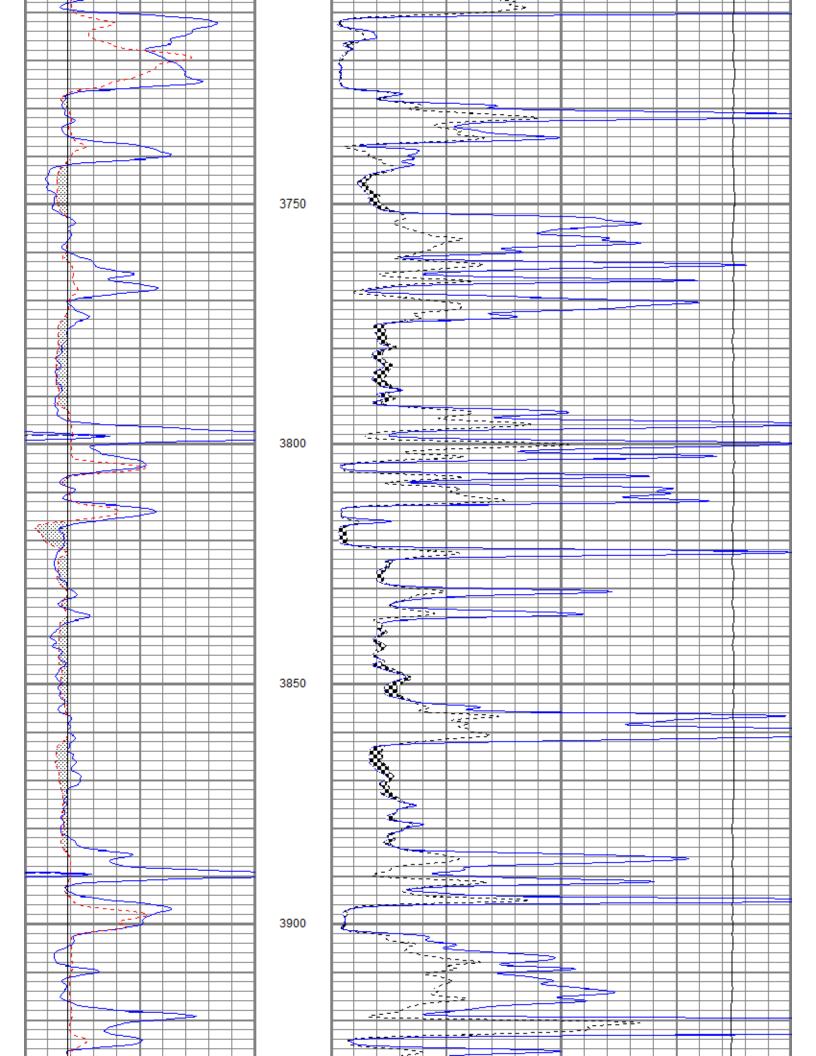


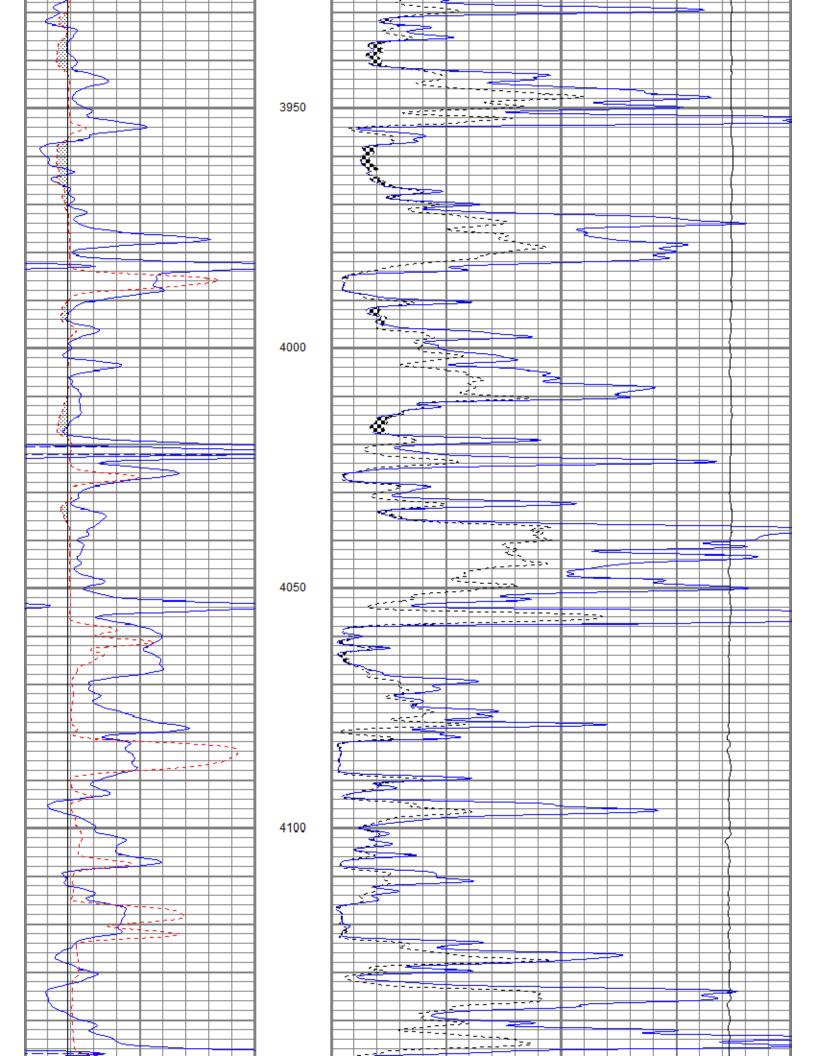


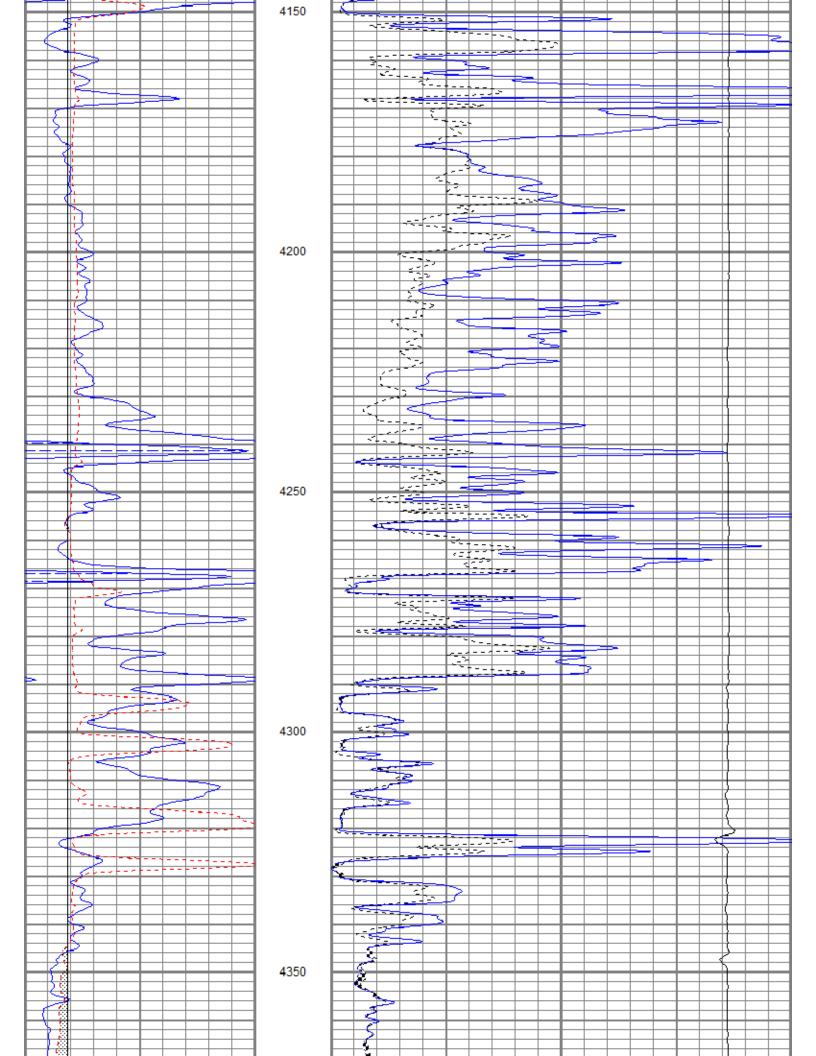


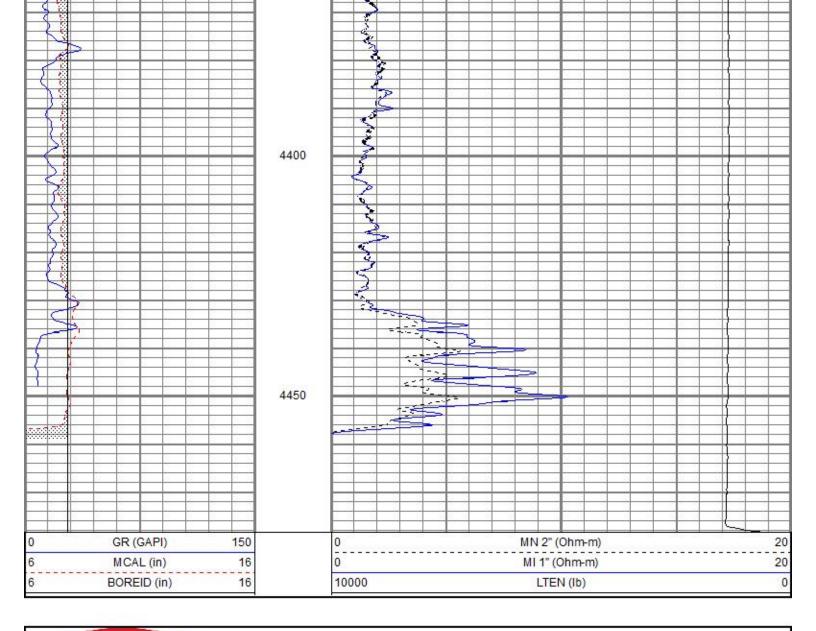








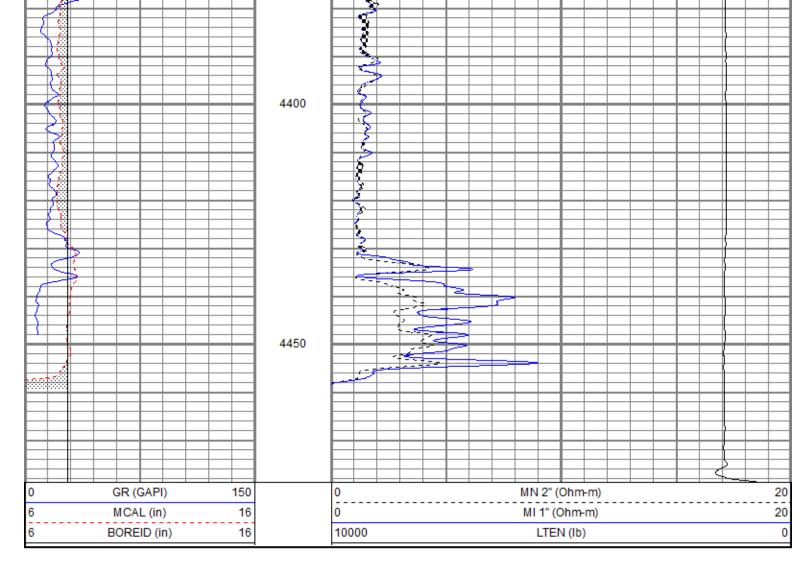






## **Repeat Pass**

A REAL POINT AND A REAL	tcbarricklow#1-33oh pass3.1 kml Fri Jun 10 20:48:09 2 Depth in Feet scaled	2016										
0 GR (GAI	PI) 150	0	0 MN 2" (Ohm-m) 2									
6 MCAL (i	n) 16	0	MI 1" (Ohm-m)	20								
6 BOREID	(in) 16	10000	LTEN (Ib)	0								
		4350										



Database File Dataset Pathname Dataset Creation	tcbarricklow pass3.1 Fri Jun 10 20		Ca	libration Rep	ort				
			Microlo	g Calibration	Report				
	Serial-I Perforn				012-Pengo Wed Apr 20 21	:39:52 2016			
		Readings			Results				
	Zero	Cal		Zero	Cal		m	b	
Normal Inverse Caliper	0.0073 0.0081 2.0536	0.4397 0.5639 4.5712	V V V	0.0000 0.0000 7.6000	11.0000 7.3000 14.0000	Ohm-m Ohm-m in	25.4408 13.1357 2.5420	-0.1852 -0.1070 2.3798	
			Gamma F	Ray Calibratio	n Report				
Serial N Tool Mo Perform			2001 OH Thu Jan	21 09:36:03 2	2016				
Calibra	Calibrator Value:				GAPI				
	ound Reading: tor Reading:		0.0 1.0		cps cps				
Sensitiv	vity:		0.2400		GAPI/cps				

