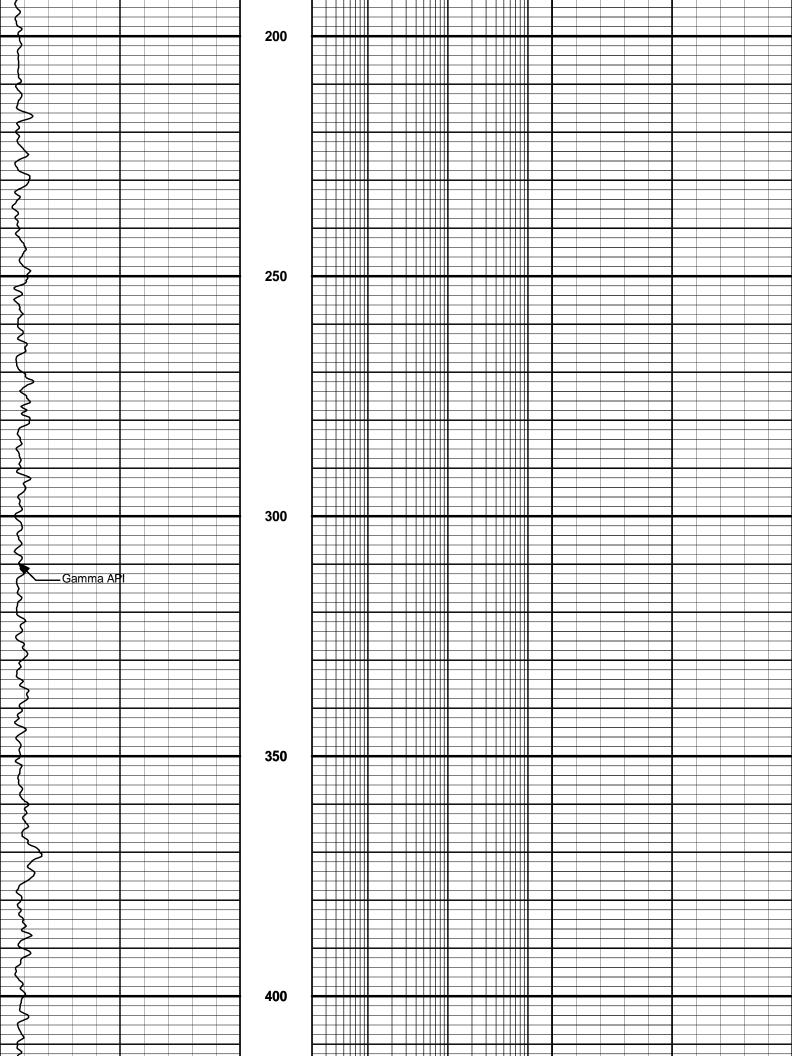
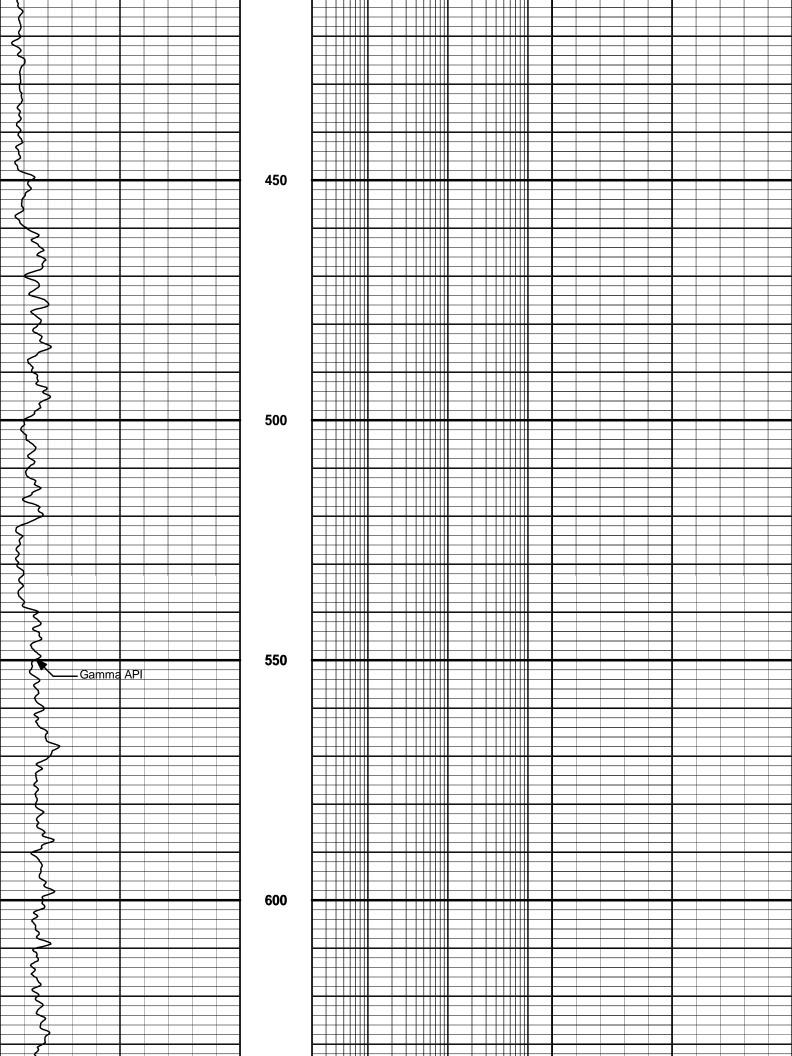
Witne		Equipment	Max.	I ime	! =	Time of	Electr	Oil Type	Water	Oil	Solids	HTHP	Alkalinity	Density	Туре	Bit Size	Casin	Casin	Top -	Botto	Depth	Depth.	Run No.	Date	2	Log r	Perm	СОМ	PANY	GREAT BEAR PETROLEUM								7		
Witnessed By		ment	Max. Rec. Temperature	I ime on Bottom	Tille office Cliculation		Electrical Stability)pe	Water Phase Salinity		"	HTHP @ Meas. Temperature	nity	₹	Type Fluid in Hole	ze	Casing - Logger	Casing - Driller	Top - Logged Interval	Bottom - Logged Interval	Depth - Logger	Depth - Driller	ō.		Dilling illeasured illoill	Log measured from	Permanent Datum	WEL	L		ALCOR #1							5		
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		Location	ature			5		Brine Type	₹	Water Ratio	Wgt. Material	mpera	P. Viscosity	F. Viscosity					<u>a</u>	ıterval					=	3 3		cou	NTY		N	ORTH	SLOP	E						
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		PRU								20	BARITE		38.0 cP	85.00				@ 249										١.		=ACE:	50029200260000	7	_	_						
		PRUDHOE BA'	8319.0 ft								ITE	200.00 degF	сР	85.00 spqt				2491.00 ft										Twp. 7N		SURFACE: 2452' FSL & 652' FEL	30000	NORTH SLOPE	WILDCAT	ALCOR #1	GREAT BEAR PETROLEOM			Z		
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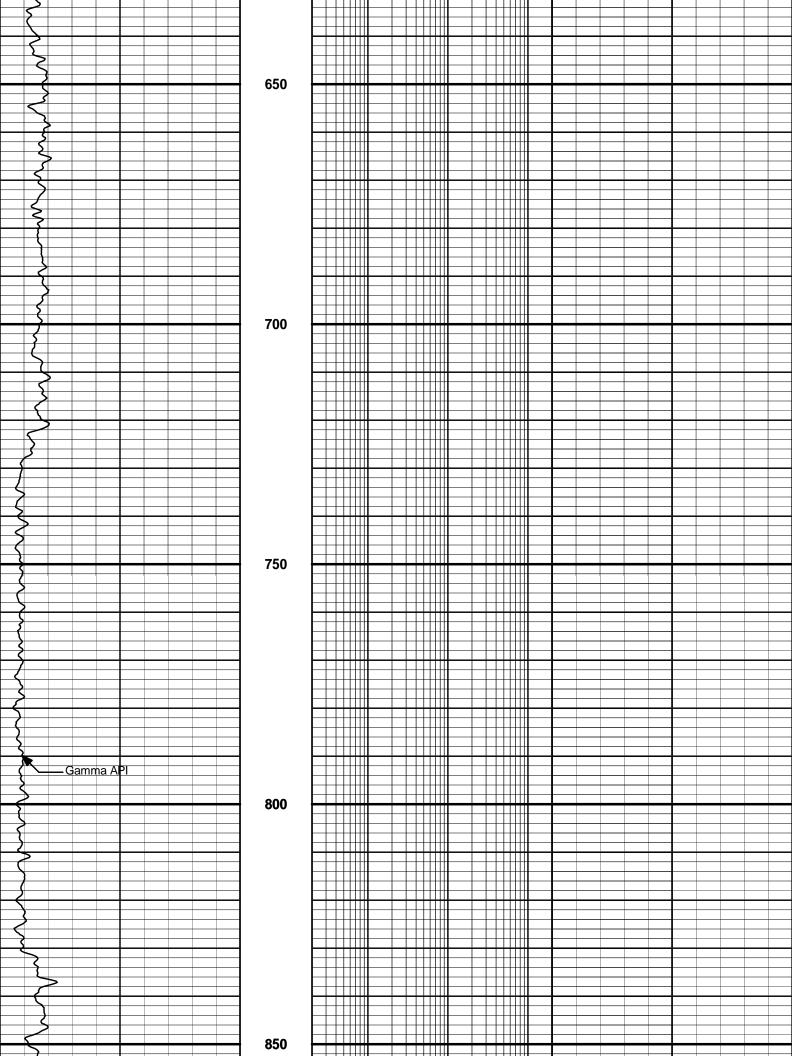
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No. ONE	From T.D.	To CSG.	ft/min REC.	0 0	R 200	30	R 190	55.5 usec	45	-15	2.65 g/cc	45	-15	SAND	
ONE	T.D.	SURF.	REC.	0	200	30	190	33.3 usec	1 40	-10	2.03 g/cc	45	-13	OAND	
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	DIRECTIONAL INFORMATION Moving Politician														
Maximum Dev	Maximum Deviation @ KOP @														
Domarke:	Demarks:														
Remarks: RWCH-SWIVEL-GTET-WSTT-OMRI WERE RAN IN COMBINATION.															
ANNULAR VC	DLUME CAL	CULATED	FOR 7" CASIN	G.											
TOOL STRING	G AND LOC	PRESENT	TATION PER C	USTOMER	REQUEST										
LATITUDE: 69	ATITUDE: 69° 59' 22.812" N														
LONGITUDE:															
YOUR CREW	TODAY: [D. CLEARY	AND J. CUNNI	NGHAM.					RIG: NABO	ORS #105.					
THANK YOU I	FOR CHOC	SING HAL	LIBURTON ENI	ERGY SER	VICES - PR	RUDHOE BA	AY, AK.								
	HALLIBI	URTON DOE	S NOT GUARAN	NTEE THE A	CCURACY (OF ANY INT	ERPRETATION	ON OF THE LOC	DATA, CO	NVERSION (OF LOG DATA T LOG OR IN ANY	O PHYSICAL	L ROCK		
	USER C	OF SUCH DA		TIONS, CON	IVERSIONS,	OR RECOM	MENDATION:	S AGREES THAT	Γ HALLIBURT	ON IS NOT I	RESPONSIBLE E				
	IO GRU	JOU INLULIUI	LINGE OIL WILLE	JE IVII GOODIND	JOI, I OR AI	LOGG, DF	winglo, UK	LAI LINGLO RES	JOETHNO FRO	ANT THE USE	ILIXLOI .				
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HALL	LIBU	RTO	N												
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Depth (ft)	Tool	l Name	Mnemo	nic	PA	RAMI		S REPO	RT		Valu	ıe	U	Inits	
(ft)		l Name	Mnemo	nic	PA	RAMI			RT		Valu	le	U	Inits	
Depth (ft))					RAMI			RT		Valu		U		
(ft)	SHAR	ED			Bit Size		Desci	ription			Valu	8.500	U	Inits in	
(ft)	SHARI SHARI	ED ED	BS UBS		Bit Size Use Bit S	Size inste	Desci			ns.	Valu	8.500 No	U		
(ft)	SHARI SHARI SHARI	ED ED ED	BS UBS MDBS		Bit Size Use Bit S Mud Bas	Size inste	Descr	ription		ıs.	Valu	8.500 No Oil	U	in	
(ft)	SHARI SHARI SHARI SHARI	ED ED ED	BS UBS MDBS MDWT		Bit Size Use Bit S Mud Bas Borehole	Size inste e Fluid We	Descr	ription		ns.	Valu	8.500 No Oil 9.500	U		
(ft)	SHARI SHARI SHARI SHARI SHARI	ED ED ED ED	BS UBS MDBS MDWT WAGT		Bit Size Use Bit S Mud Bas Borehole Weightin	Size inste e Fluid We g Agent	Descr	ription		ns.	Valu	8.500 No Oil 9.500 Barite	U	in ppg	
(ft)	SHAR SHAR SHAR SHAR SHAR SHAR	ED ED ED ED ED	BS UBS MDBS MDWT WAGT BSAL		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole	Size inste e Fluid We g Agent salinity	Descr ad of Cal	ription		ıs.	Valu	8.500 No Oil 9.500 Barite 0.00	U	in PPg ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI	ED ED ED ED ED ED ED ED	BS UBS MDBS MDWT WAGT BSAL FSAL		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole Formatio	Size inste e Fluid We g Agent salinity n Salinity	Descr ad of Cal eight	ription iper for all a		ns.	Valu	8.500 No Oil 9.500 Barite 0.00	U	in ppg ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS		Bit Size Use Bit S Mud Bass Borehole Weighting Borehole Formatio OBM Wa	Size inste e Fluid We g Agent salinity n Salinity	Descr ad of Cal eight NaCl e Salinity	ription iper for all a	pplication	ıs.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00	U	in PPg ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole Formatio OBM Wa	Size instere e Fluid We g Agent salinity n Salinity ter Phase Fraction	Description Descri	ription iper for all a	pplication	ıs.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 0.00	U	in ppg ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT		Bit Size Use Bit S Mud Bas Borehole Weightine Borehole Formatio OBM Wa Base Oil	Size inste e Fluid We g Agent salinity n Salinity iter Phase Fraction	Description of Calleight NaClee Salinity from Oil/	ription iper for all a NaCl Water Ratio	pplication	ns.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel	U	in ppg ppm ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT		Bit Size Use Bit S Mud Bas Borehole Weightine Borehole Formatio OBM Wa Base Oil	Size instere e Fluid We g Agent salinity n Salinity ter Phase Fraction	Description of Calleight NaClee Salinity from Oil/	ription iper for all a NaCl Water Ratio	pplication	ıs.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 0.00	U	in ppg ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based	Size inste e Fluid We g Agent salinity n Salinity iter Phase Fraction	Descr ad of Cal eight NaCl e Salinity from Oil/v pe by Weigh	ription iper for all a NaCl Water Ratio	pplication	ns.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel	U	in ppg ppm ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based	Size instere Fluid We g Agent salinity n Salinity ter Phase Fraction d Mud Ty C in Mud	Descr ad of Cal eight NaCl e Salinity from Oil/v pe by Weigh	ription iper for all a NaCl Water Ratio	pplication	ns.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00	U	in ppg ppm ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD		Bit Size Use Bit S Mud Base Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent I Logging I	Size instere Fluid We g Agent salinity n Salinity ter Phase Fraction d Mud Ty C in Mud	Description of Calleight NaCle Salinity from Oil/ pe by Weights Cased?	ription iper for all a NaCl Water Ratio	pplication	ns.	Valu	8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 No	U	in Ppg ppm ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD		Bit Size Use Bit S Mud Base Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent I Logging I	Size instere e Fluid We g Agent salinity n Salinity ter Phase Fraction d Mud Ty K in Mud Interval is sing OD	Description of Calleight NaCle Salinity from Oil/ pe by Weights Cased?	ription iper for all a NaCl Water Ratio	pplication	ns.		8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 No 7.000	U	in ppg ppm ppm ppm	
(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD ST		Bit Size Use Bit S Mud Bass Borehole Weightine Borehole Formatio OBM Wa Base Oil Oil based Percent k Logging I AHV Cas Surface	Size instere Fluid We g Agent salinity n Salinity ter Phase Fraction d Mud Ty K in Mud Interval is sing OD	Description of Calleight NaClee Salinity from Oil/ pe by Weights Cased?	ription iper for all a NaCl Water Ratio	pplication	ns.		8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 No 7.000 50.0	U	in PPG ppm ppm ppm pim ppm	
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(ft)	SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD ST TD BHT		Bit Size Use Bit S Mud Bas Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent P Logging I AHV Cas Surface T Total We Bottom H Navigatio	Size instere e Fluid We g Agent salinity n Salinity ter Phase Fraction d Mud Ty K in Mud Interval is sing OD Femperat Il Depth dole Tempon and Su	Description of Calleight NaClee Salinity from Oil/ pe by Weight a Cased? Ture perature preservey Mass	ription iper for all a NaCl Water Ratio	pplication	ns.		8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 7.000 50.0 320.00	U	in ppg ppm ppm ppm degF ft	
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(ft)	SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD ST TD BHT SVTM AZTM TEMM BHSM		Bit Size Use Bit S Mud Base Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent k Logging I AHV Cas Surface T Total We Bottom H Navigatio High Res Tempera Borehole	Size instere Fluid Weig Agent salinity n Salinity ter Phase Fraction d Mud Ty K in Mud Interval is sing OD Femperat Il Depth Hole Tempon and Su size Mas Size Ma	Description of Calleight NaCle Salinity from Oil/vipe by Weight Cased? Ture perature perature prometer ter Tool ster Tool	ription iper for all a NaCl Water Ratio ht?	pplication	ns.		8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 7.000 50.0 320.00 200.0 NONE GTET NONE NONE	U	in ppg ppm ppm ppm degF ft	
(ft)	SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD ST TD BHT SVTM AZTM TEMM		Bit Size Use Bit S Mud Base Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent k Logging I AHV Cas Surface T Total We Bottom H Navigatio High Res Tempera Borehole	Size instere e Fluid We g Agent salinity n Salinity ter Phase fraction d Mud Ty K in Mud Interval is sing OD Temperat Il Depth Hole Temperat on and Su ture Mas	Description of Calleight NaCle Salinity from Oil/vipe by Weight Cased? Ture perature perature prometer ter Tool ster Tool	ription iper for all a NaCl Water Ratio ht?	pplication	ns.		8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 7.000 50.0 320.00 200.0 NONE GTET NONE	U	in ppg ppm ppm ppm degF ft	
(ft)	SHARI SHARI	ED E	BS UBS MDBS MDWT WAGT BSAL FSAL WPHS OFOW OBMT KPCT CSD ICOD ST TD BHT SVTM AZTM TEMM BHSM		Bit Size Use Bit S Mud Base Borehole Weighting Borehole Formatio OBM Wa Base Oil Oil based Percent k Logging I AHV Cas Surface T Total We Bottom H Navigatio High Res Tempera Borehole Process	Size instere Fluid Weig Agent salinity n Salinity ter Phase Fraction d Mud Ty K in Mud Interval is sing OD Femperat Il Depth Hole Tempon and Su size Mas Size Ma	Description of Calleight NaCle Salinity from Oil/v pe by Weight Cased? Ture perature perature prometer perature prometer ter Tool ster Tool	ription iper for all a NaCl Water Ratio ht?	pplication	ns.	8	8.500 No Oil 9.500 Barite 0.00 0.00 1.00 Diesel 0.00 7.000 50.0 320.00 200.0 NONE GTET NONE NONE	U	in ppg ppm ppm ppm degF ft	

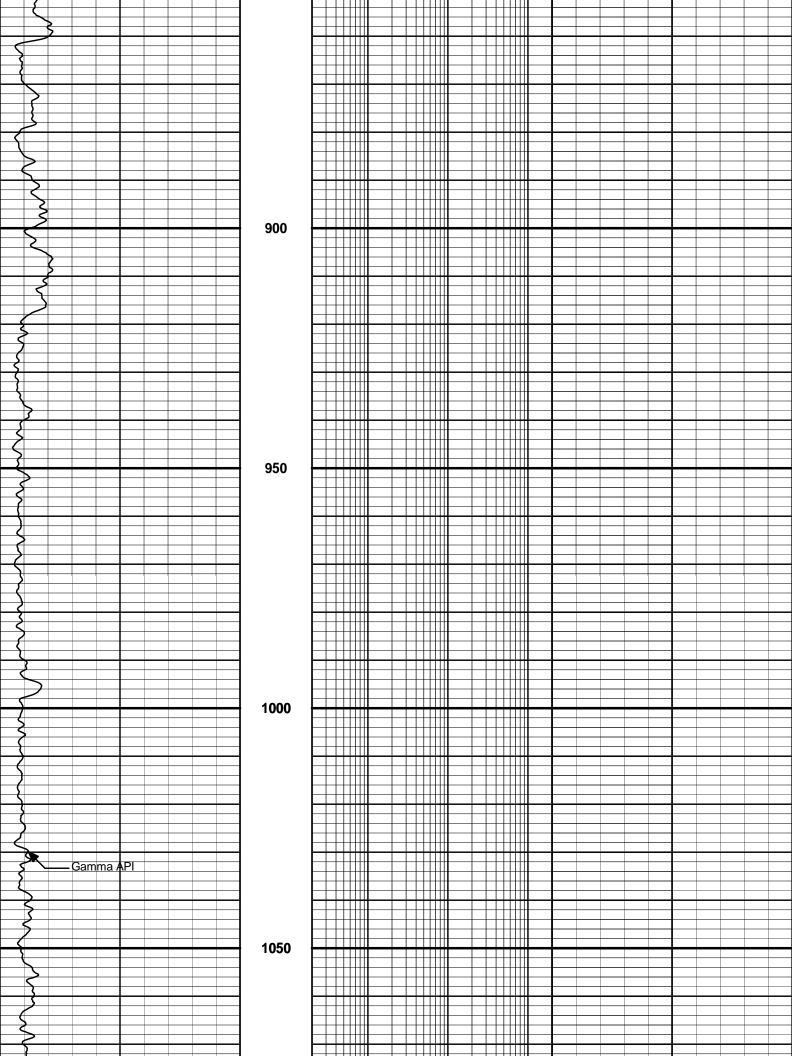
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
CSNG	CGOK	Process CSNG Data?	Yes	
CSNG	CENT	Is Tool Centralized?	No	
CSNG	GBOK	Gamma Environmental Corrections?	Yes	
CSNG	BARF	Barite Correction Factor	1.00	
CSNG	ORDG	Use Fixed Gain	No	
CSNG	ORDO	Use Fixed Offset	No	
CSNG	ORDR	Use Fixed Resolution Degradation Factor	No	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.650	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Wavesonic-I	WSOK	Process WSTT?	Yes	
Wavesonic-I	AFIL	Adaptive Filtering?	No	
Wavesonic-I	PINT	Process 1 Sample and Skip	0	
Wavesonic-I	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
Wavesonic-I	DTSH	Delta -T Shale	100.00	uspf
Wavesonic-I	DTMT	Delta -T Matrix Type	Sandstone 55.5	
Wavesonic-I	DTMA	Delta -T Matrix	55.50	uspf
Wavesonic-I	DTFL	Delta -T Fluid	189.00	uspf
Wavesonic-I	RHOM	Matrix Density	2.6500	g/cc
Wavesonic-I	RHOF	Fluid Density	1.0000	g/cc
Wavesonic-I	SMTH	Semblance Threshold	0.25	9,
Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	
Wavesonic-I	APEQ	Acoustic Porosity Equation	Wylie	
Wavesonic-I	NAVS		NONE	
		Navigation Source Tool		
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	

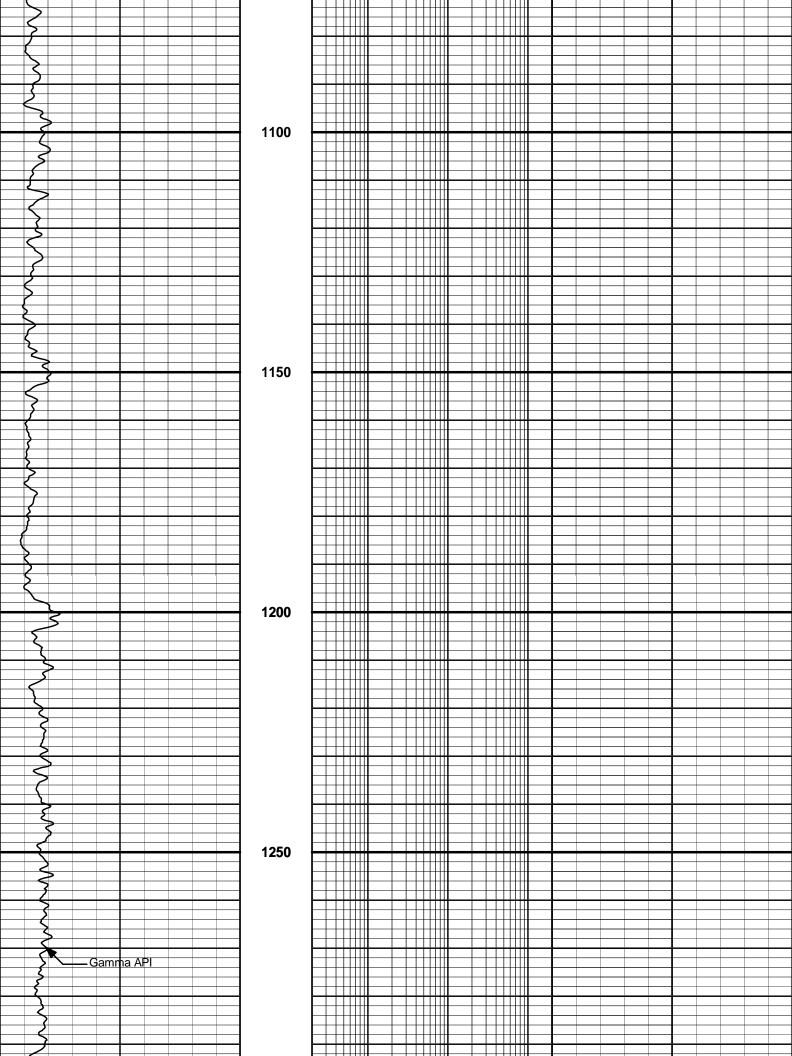
	ACRt Sonde	RMOP	Rmud S						Mud Cell				
	ACRt Sonde	RMIN	Minimur	n Resisti	vity fo	r MAP				0.20		ohmm	
	ACRt Sonde	RMIN	Maximu	m Resisti	vity fo	or MAP				200.00		ohmm	
	ACRt Sonde	THQY	Thresho	ld Quality	/						0.50		
	ACRt Sonde	MRFX	Fixed m	ud resisti	vity						2000		ohmm
вотто	OM	_											
Data: GB	_ALCOR_#1\0001 QU	AD\IDLE									Date	e: 10-Jul-1	12 14:18:59
HAL	LIBURTO	Plot Ra Data: {/	ne: 26-Jul-12 1 nge: 100 ft to ActiveWell}\We le: \\COMP_5IN	8330.75 fe ell Based*	1 *	RM							
MAIN	I PASS 5" = 100'												
				0.2		RT10			200				
						Ohm-m							
				0.2		RT20			200	45	Neutron Po		-15
						Ohm-m					perce	nt	
10K	Tens	0	 - AHVT	0.2		RT30			200	45	Density Po	orosity	-15
	pounds					Ohm-m					perce	nt	
6	Caliper	16	5.D.T	0.2		RT60			200	0	Pe		10
	inches		внут —			Ohm-m							
0	Gamma API	200		0.2		RT90			200	-0.25	Density	Corr	0.25
	api	200	1:240		_	Ohm-m		_		0.20	gram pe		0.20
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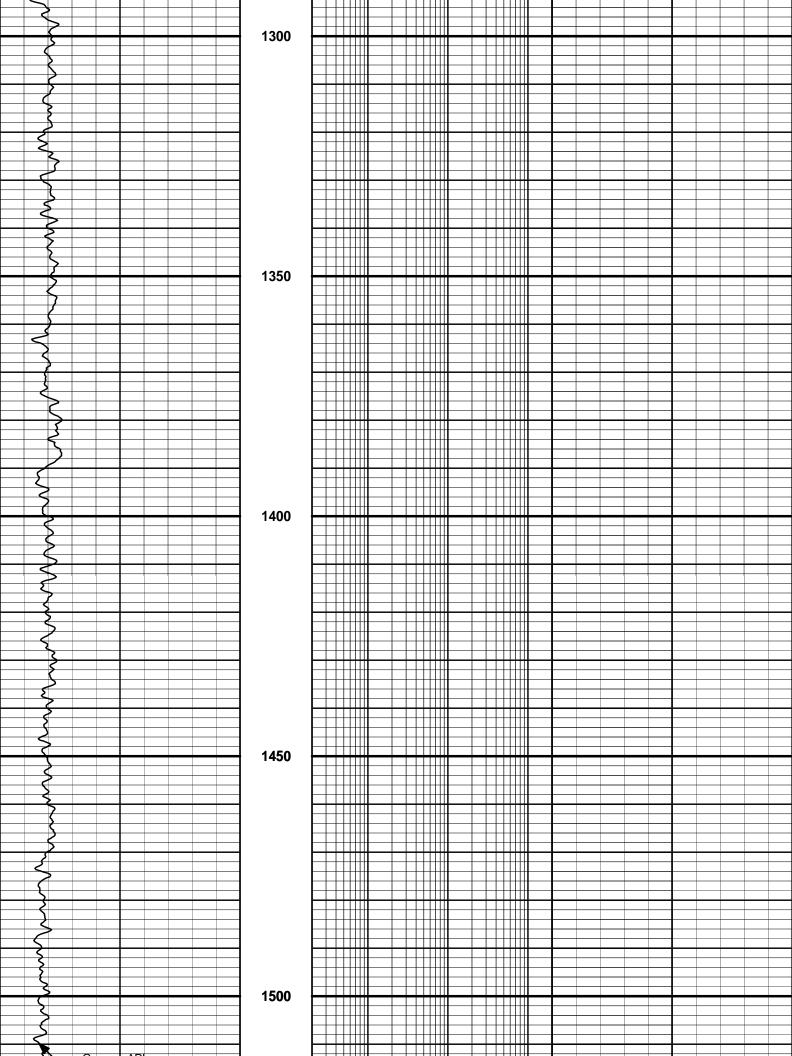


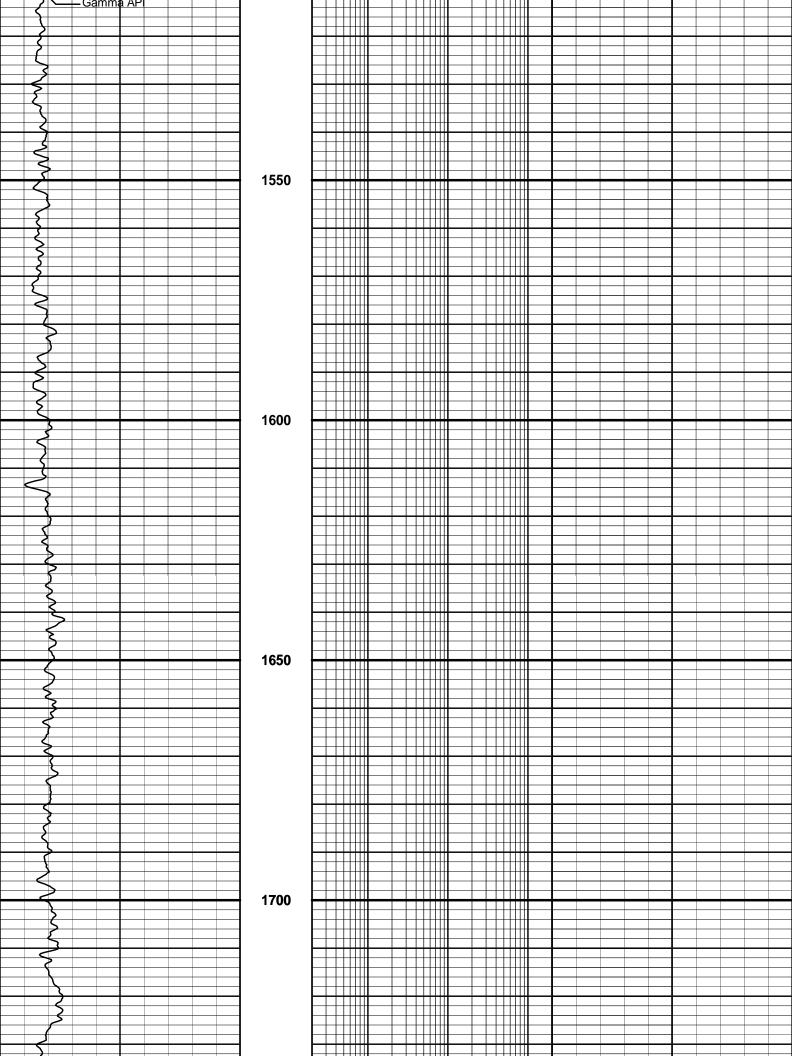


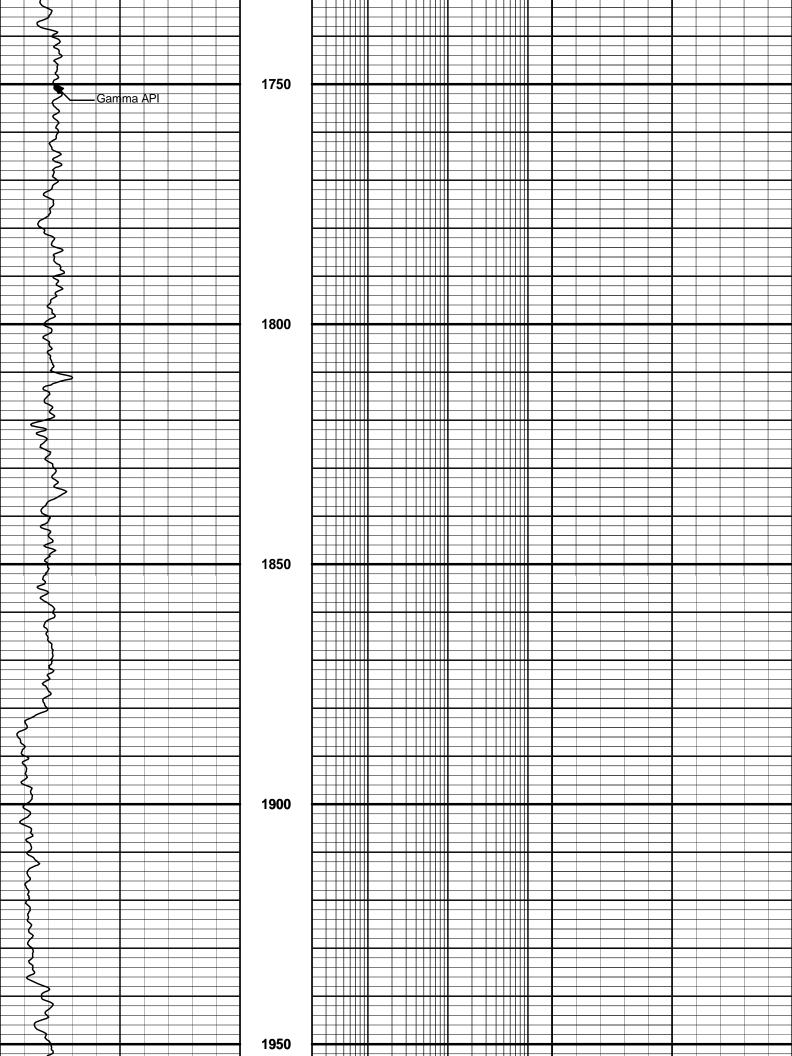


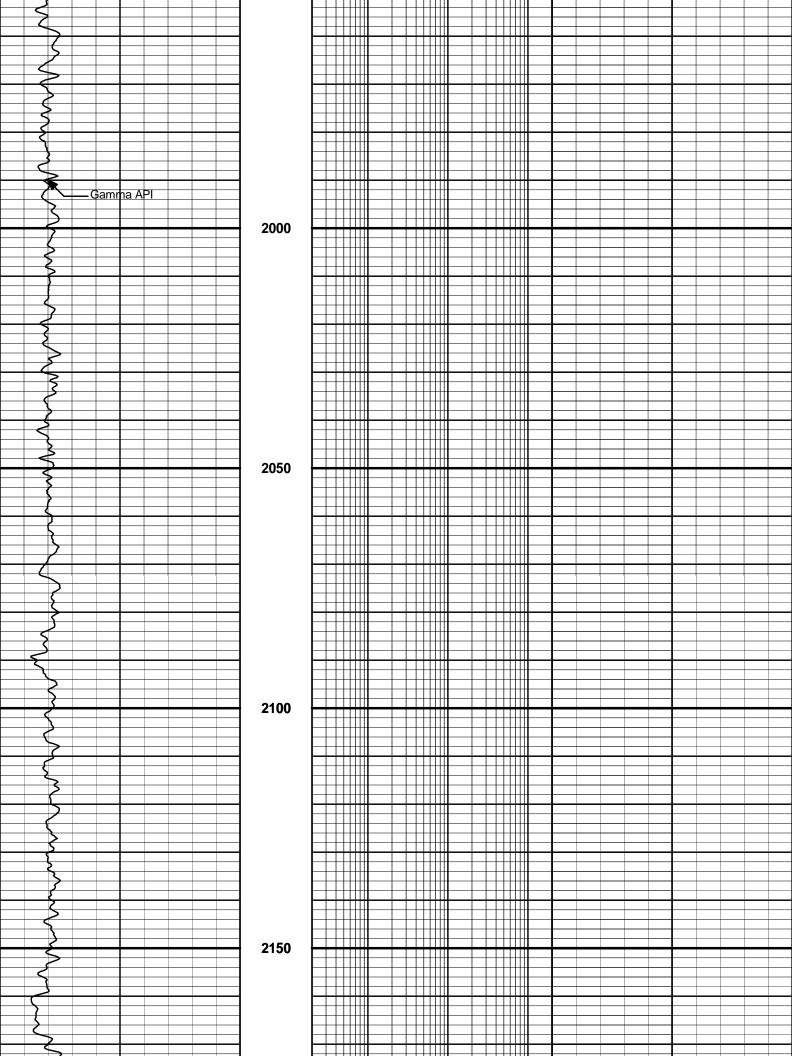


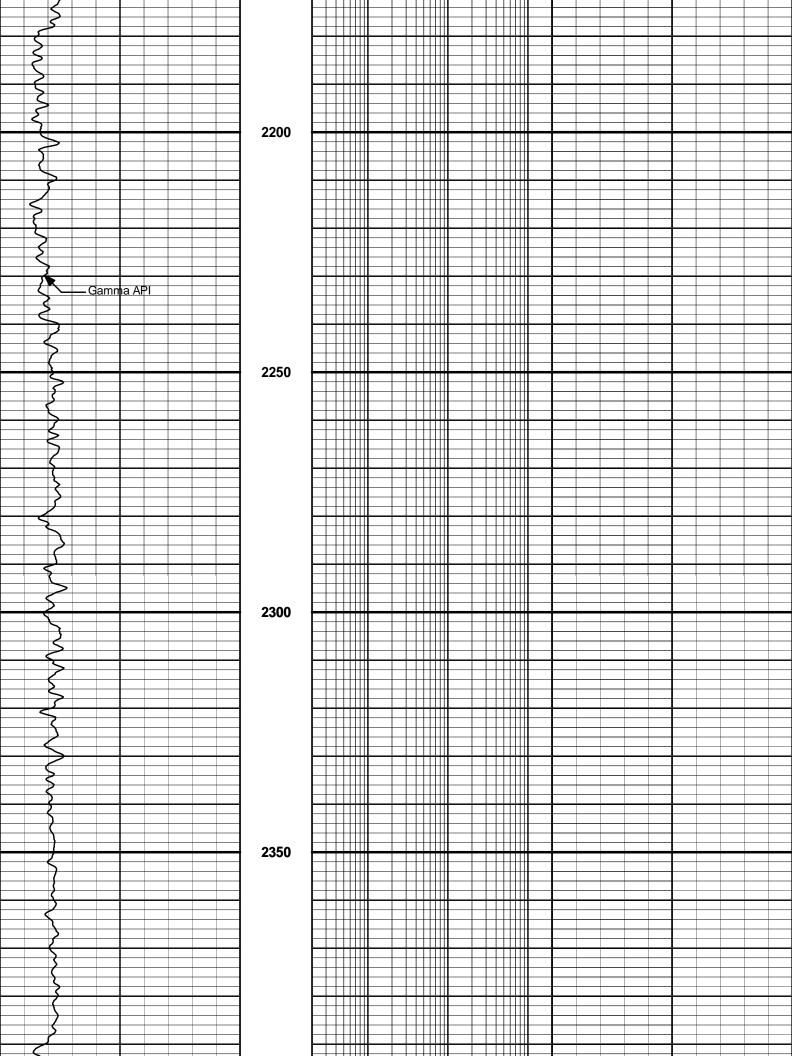


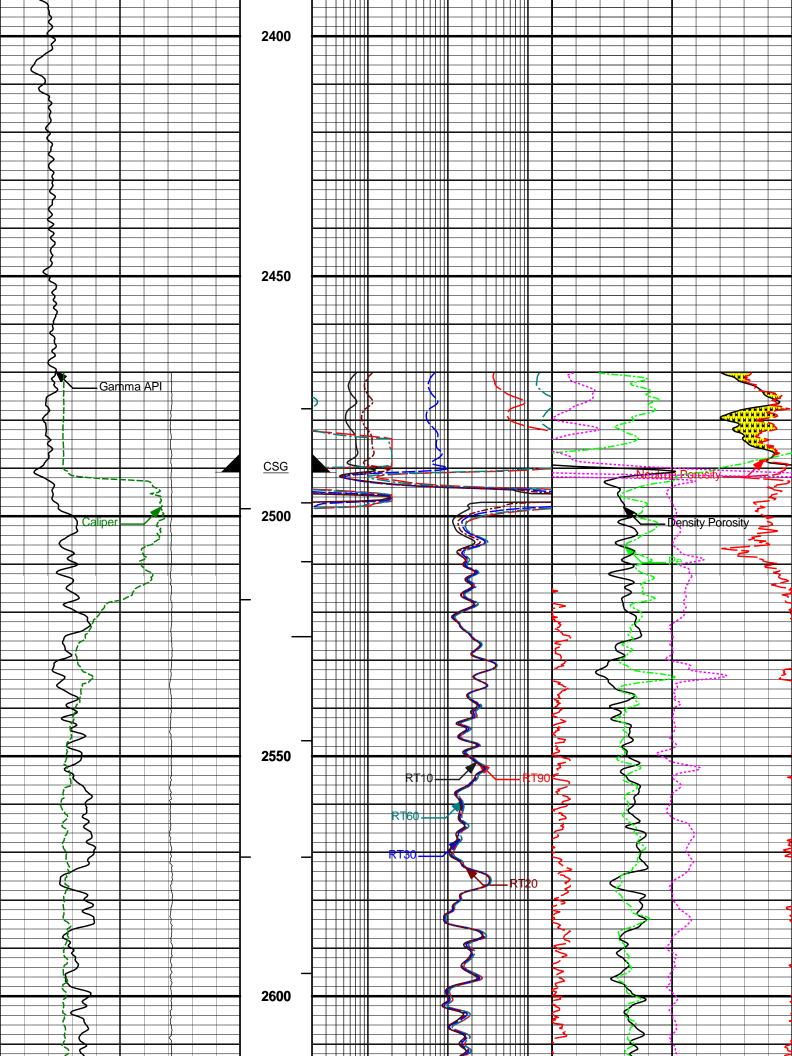


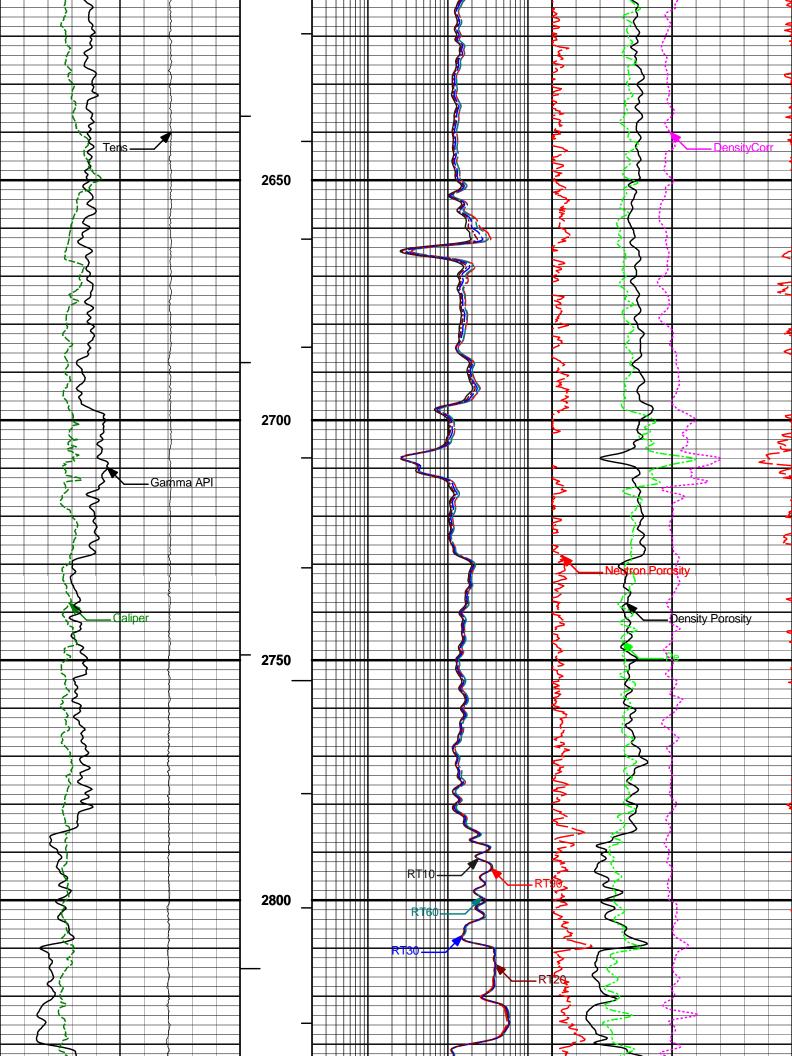


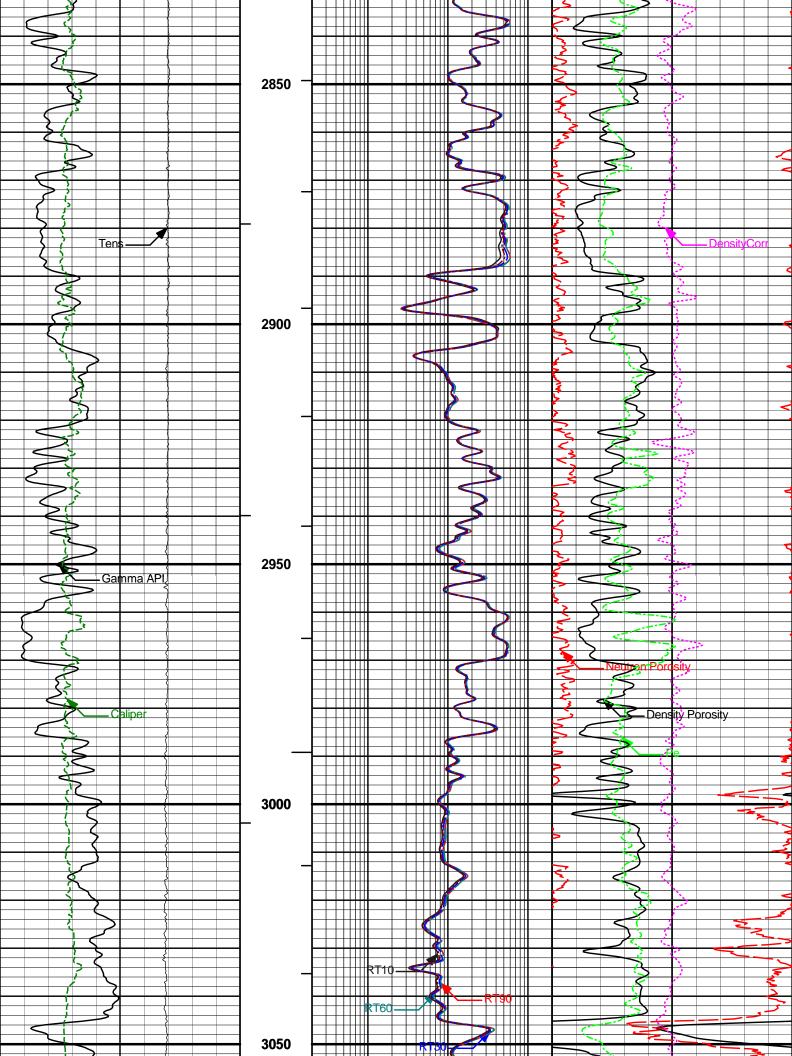


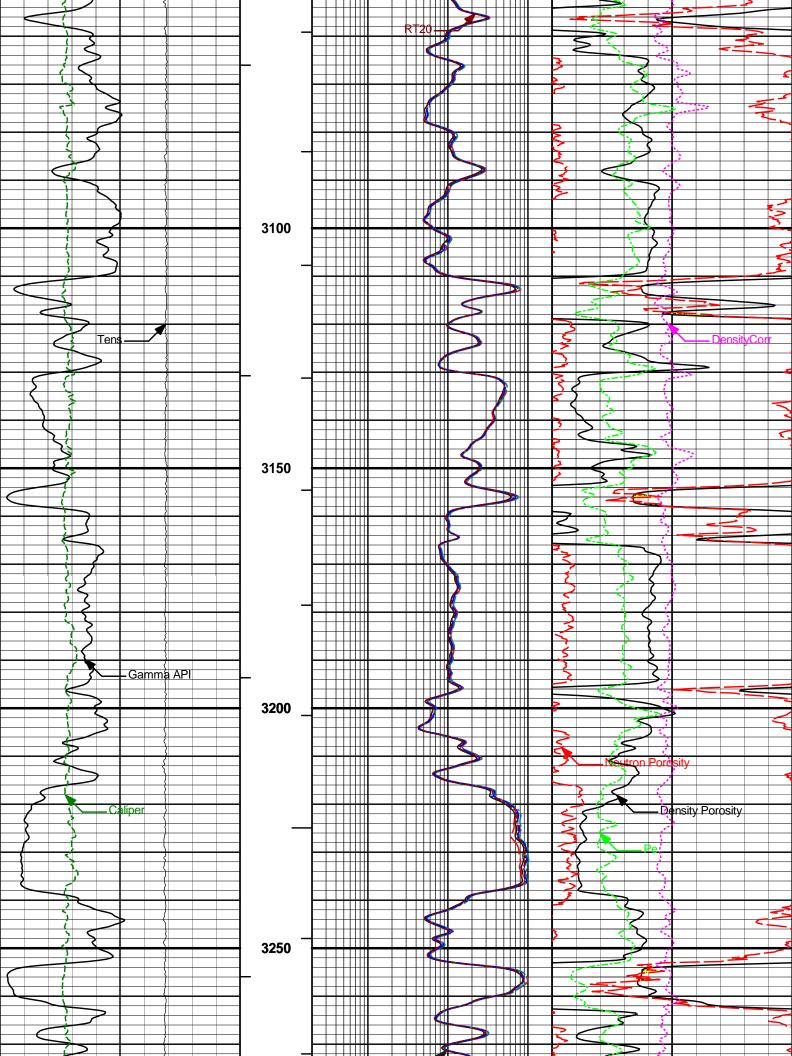


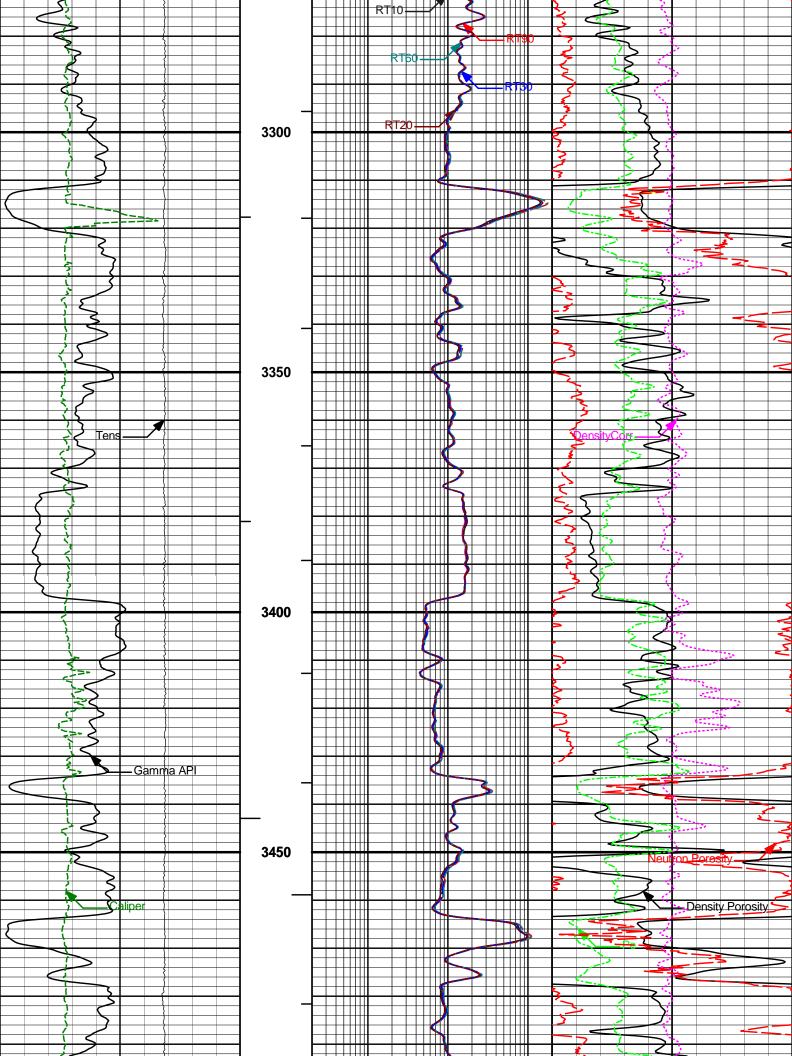


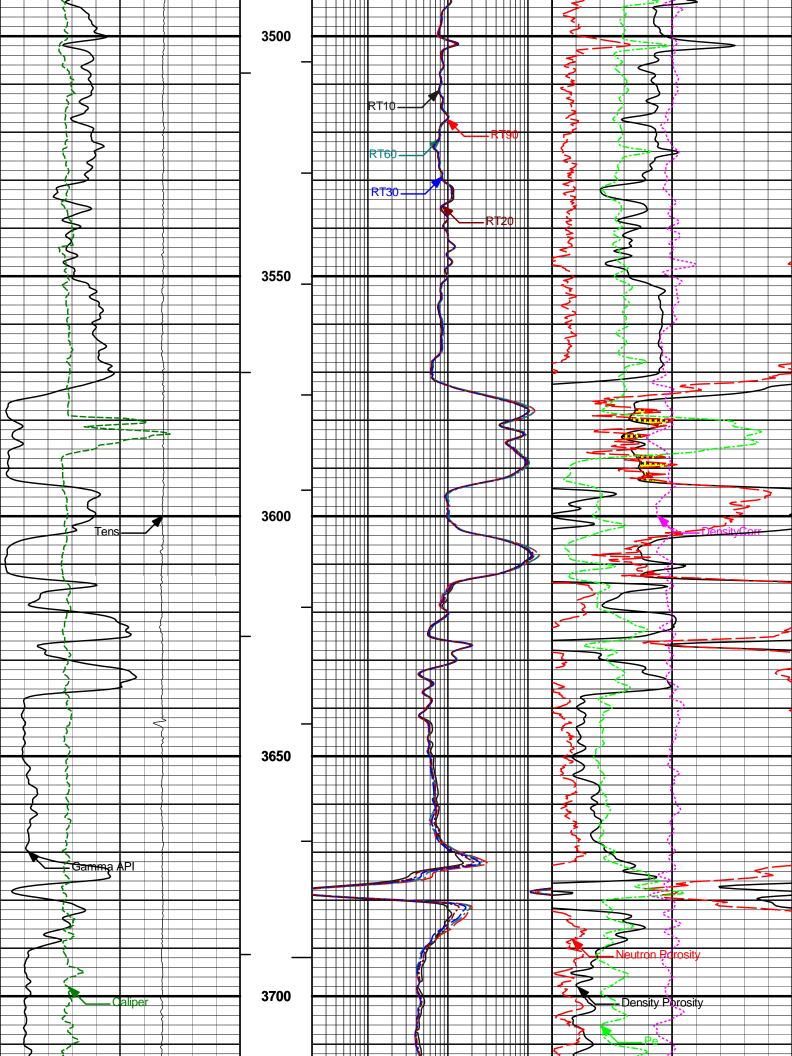


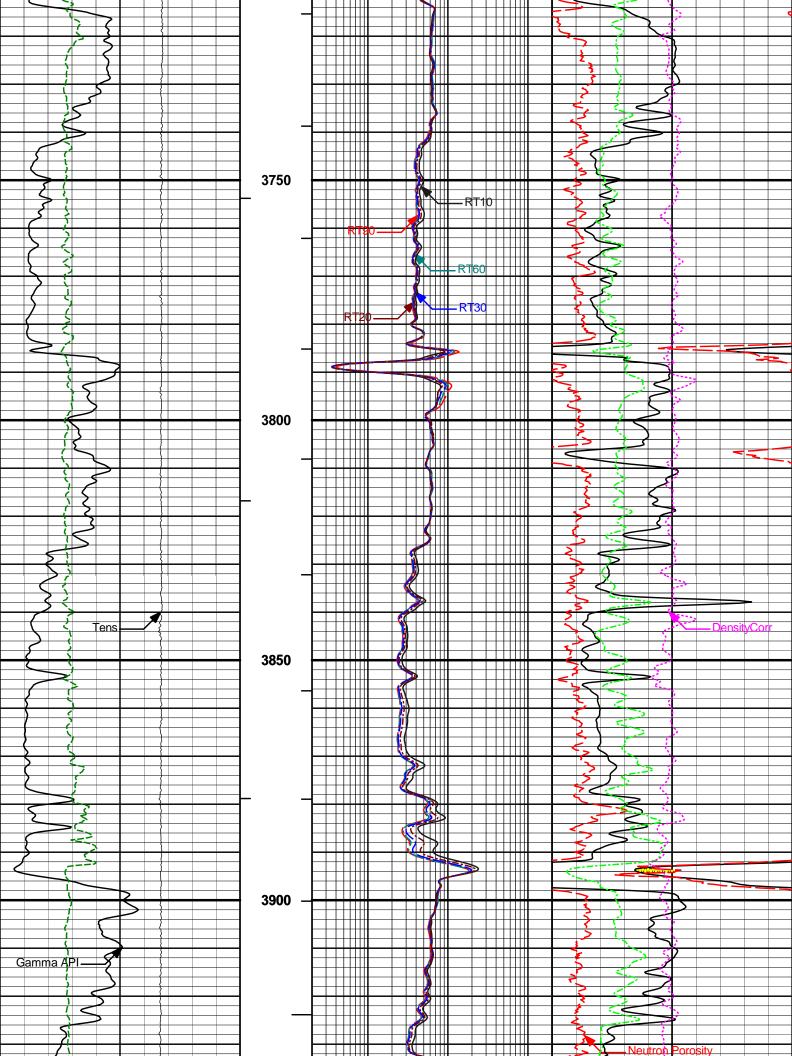


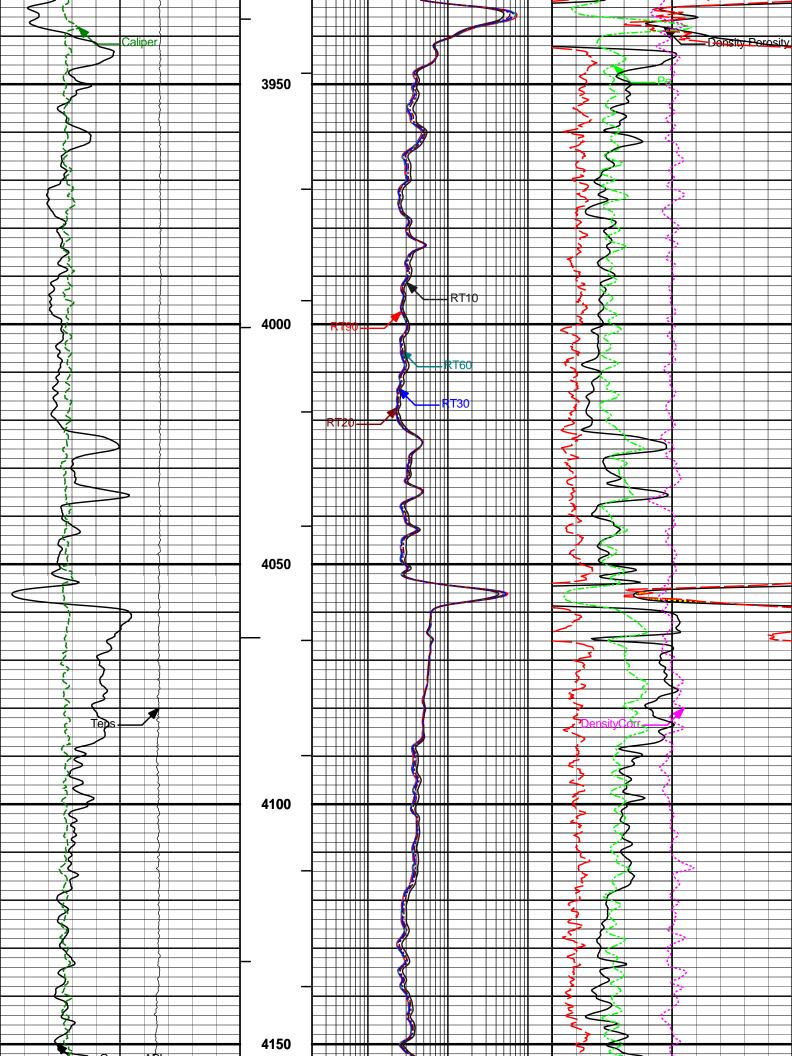


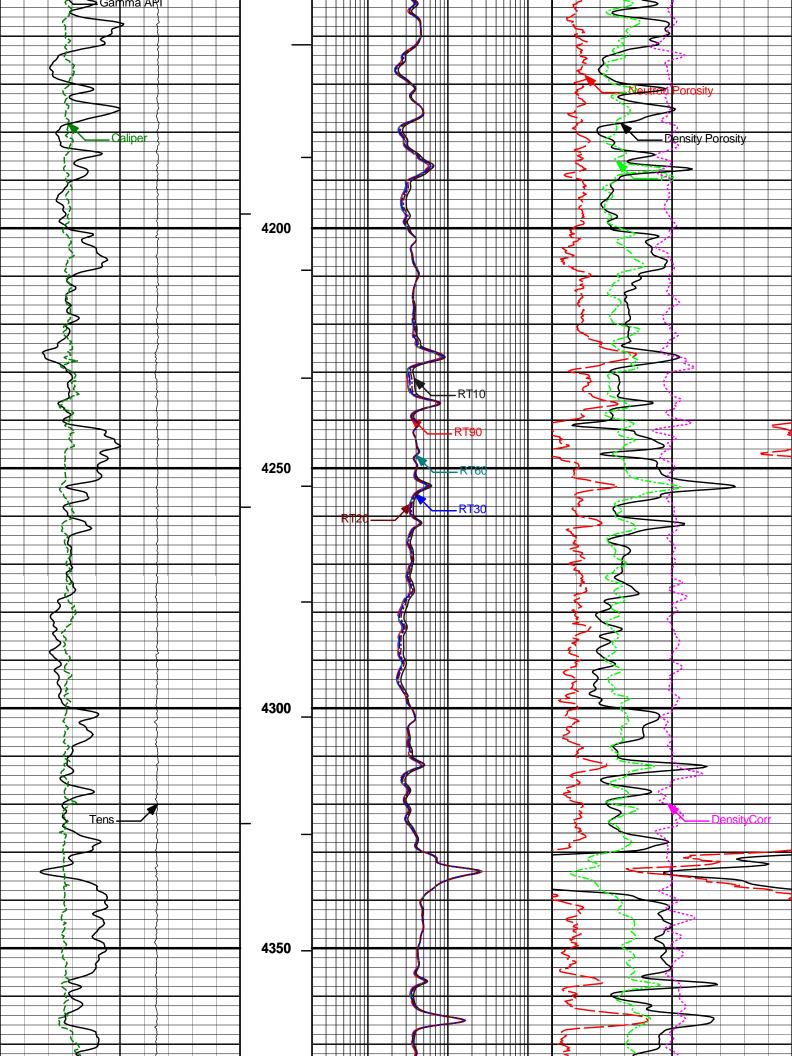


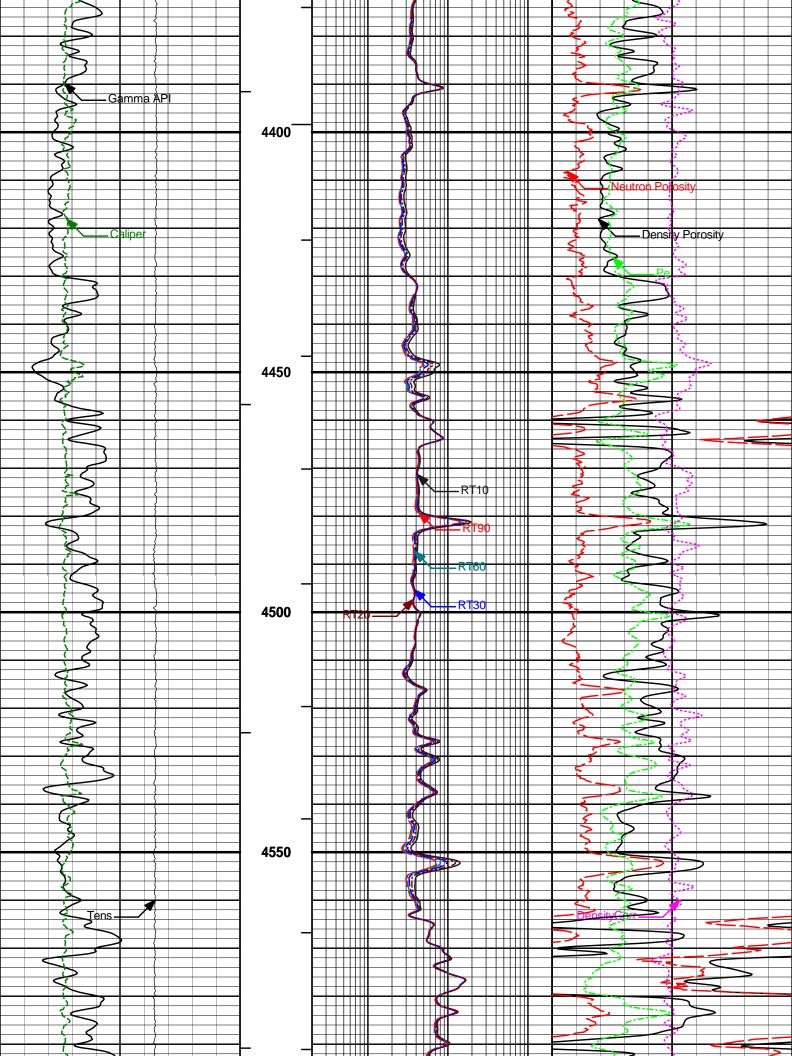


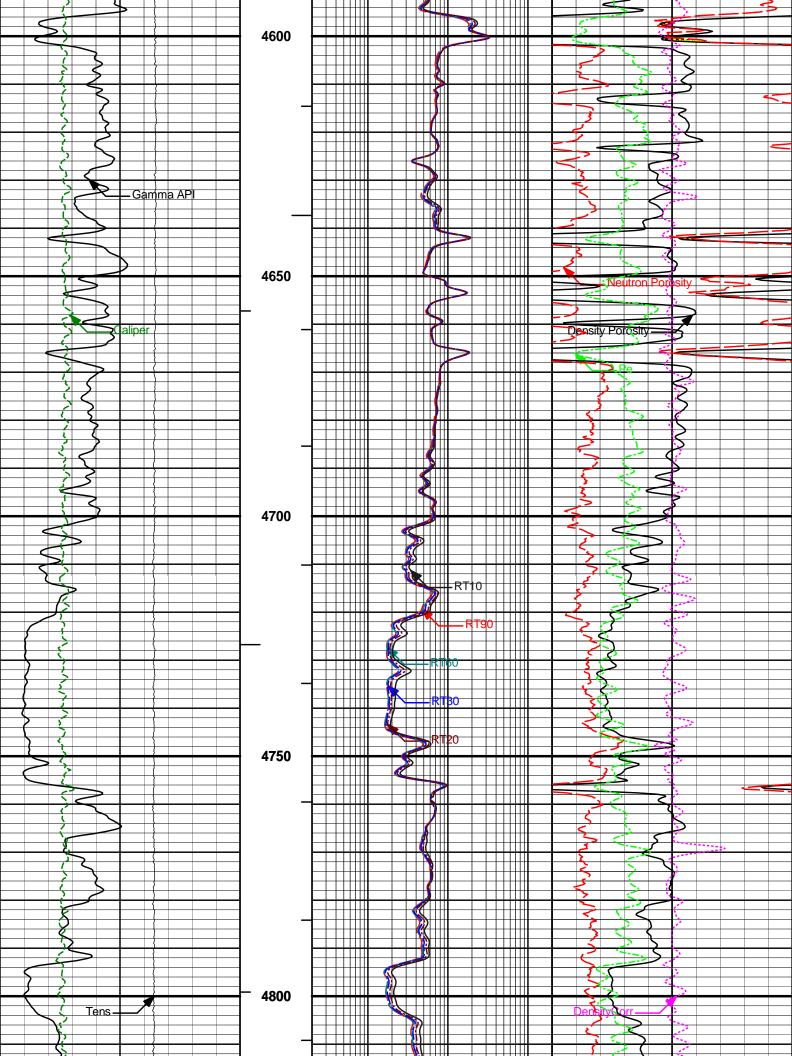


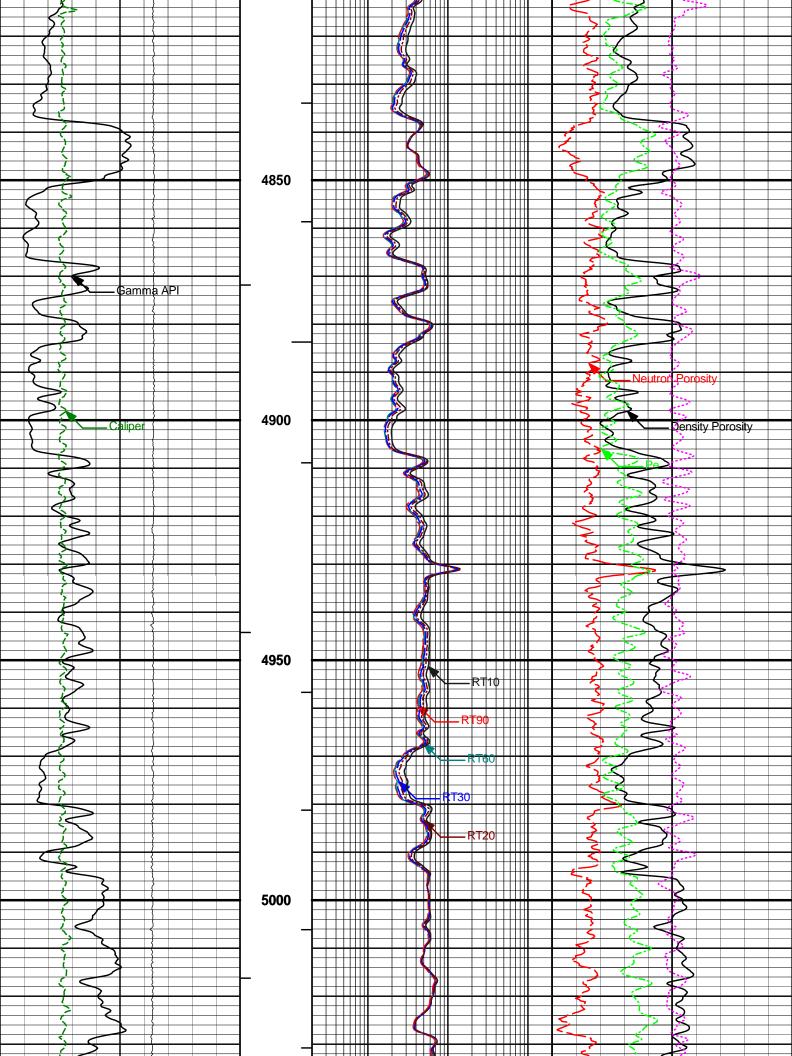


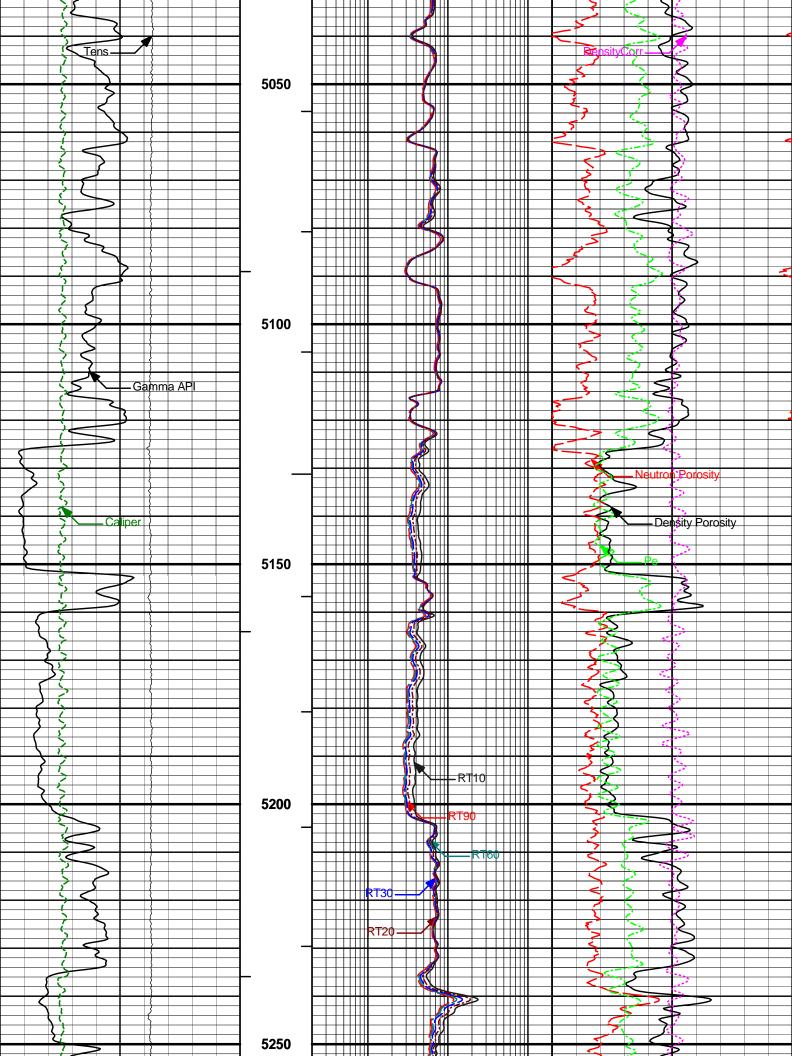


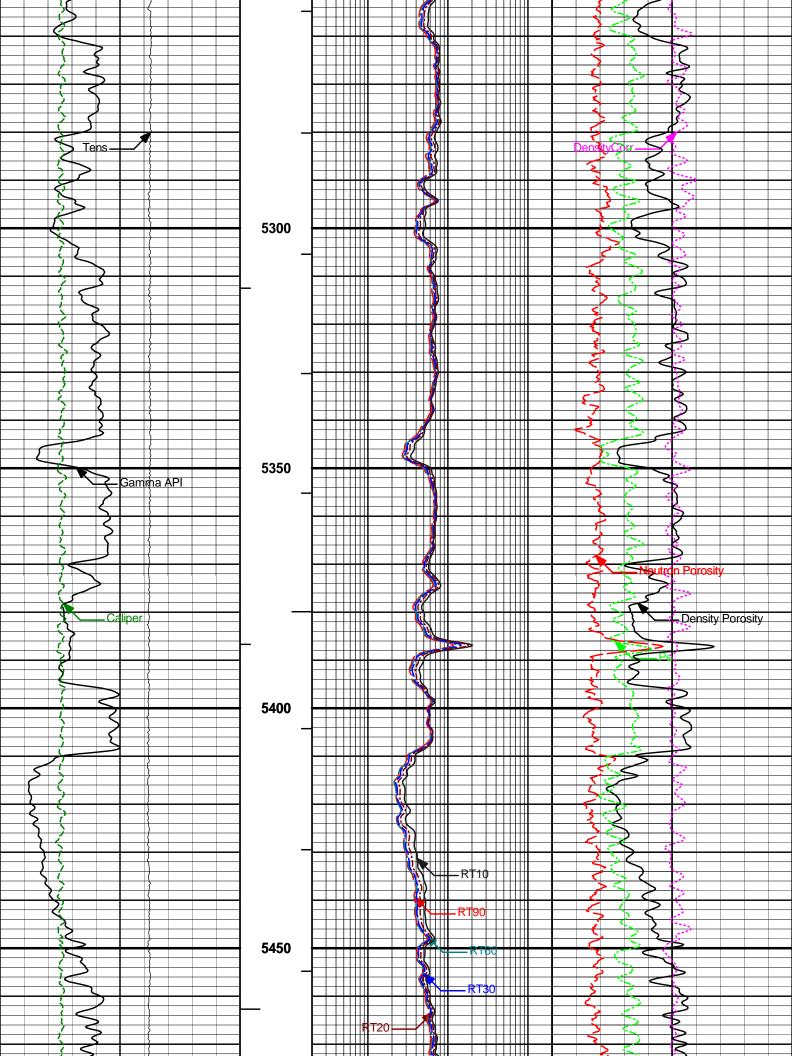


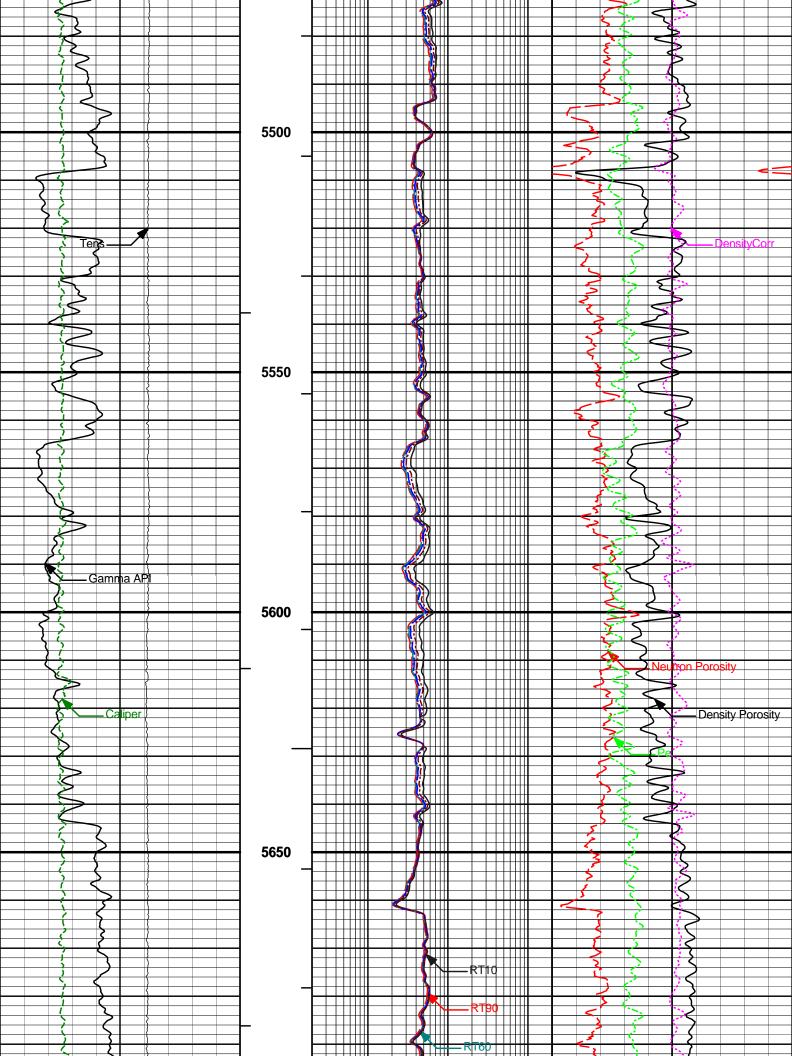


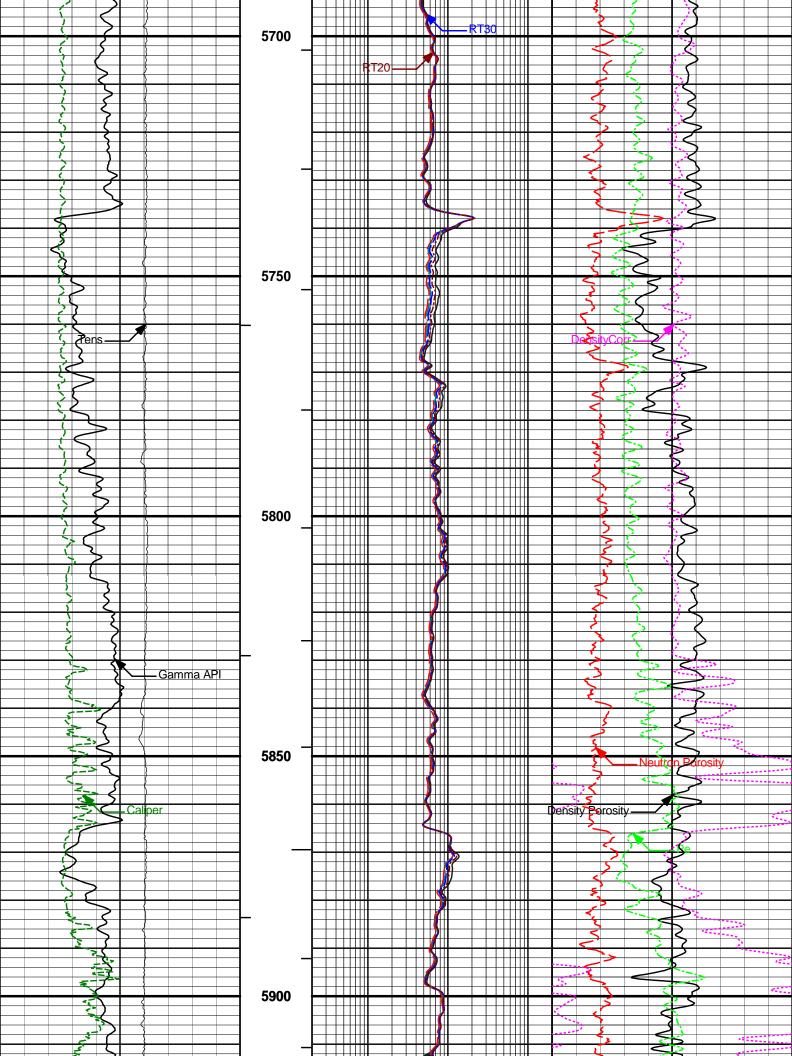


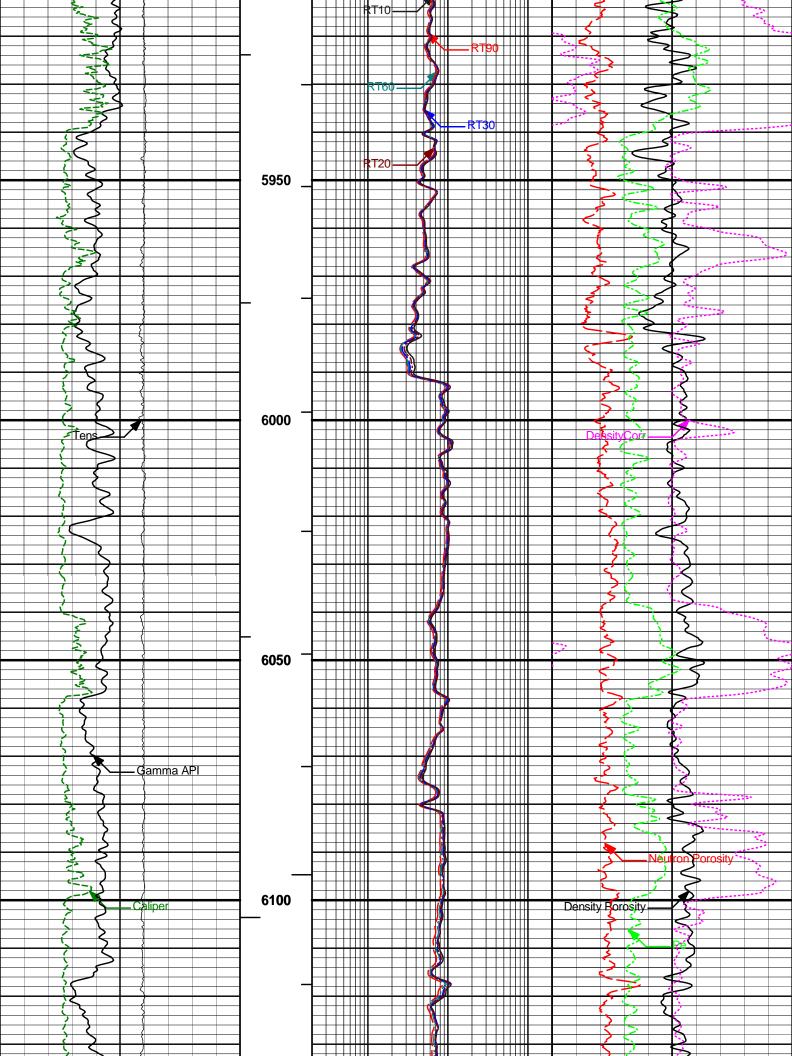


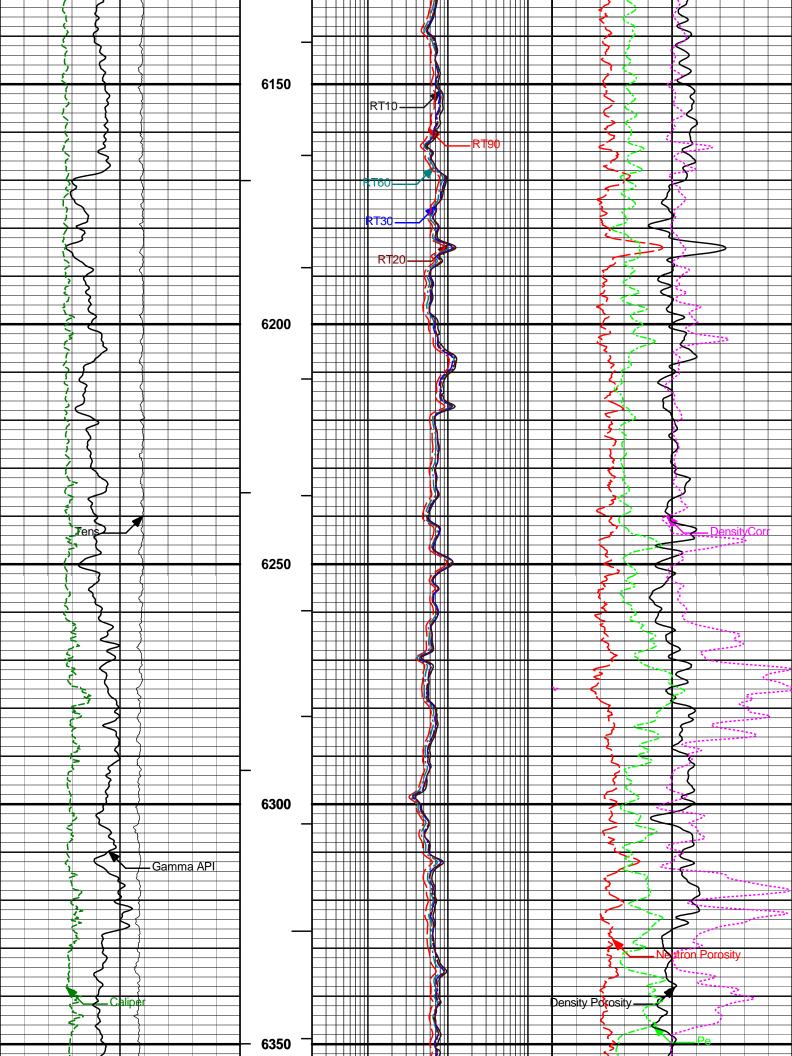


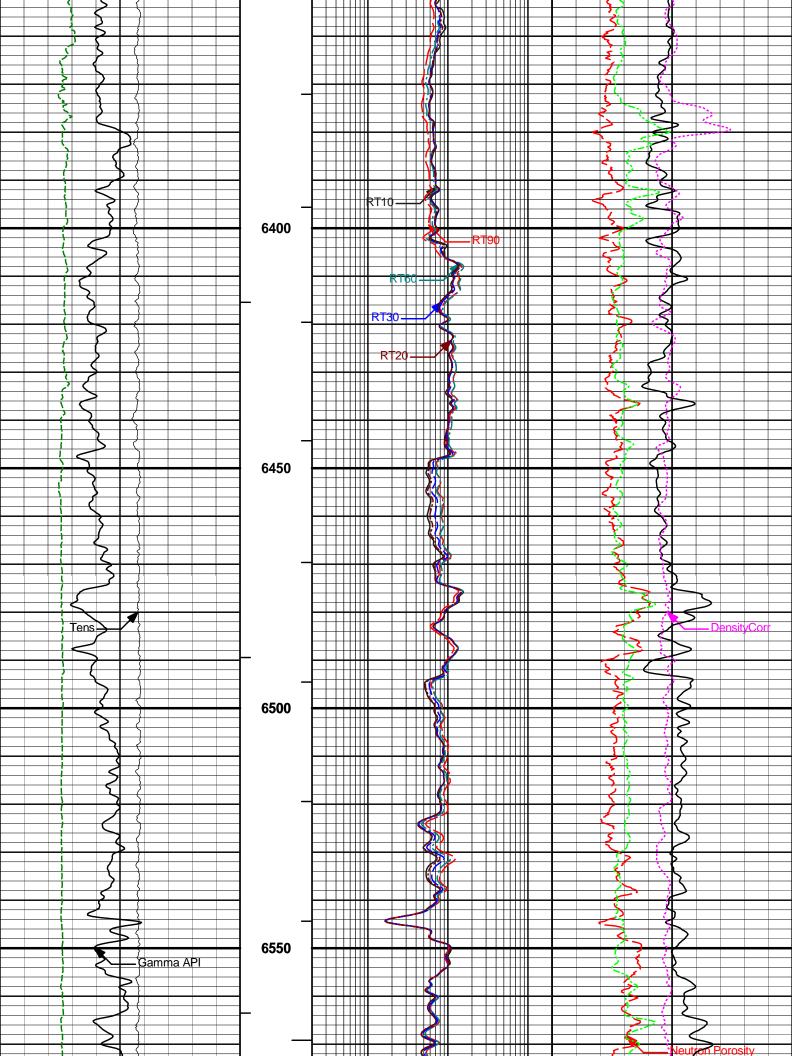


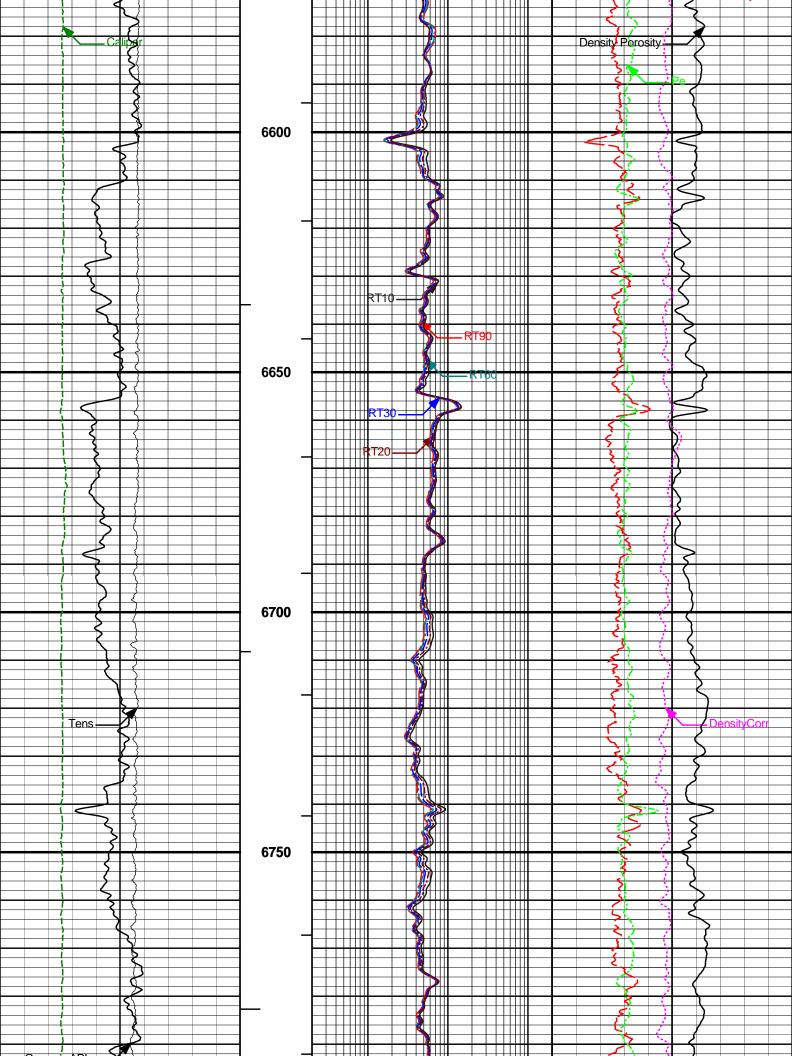


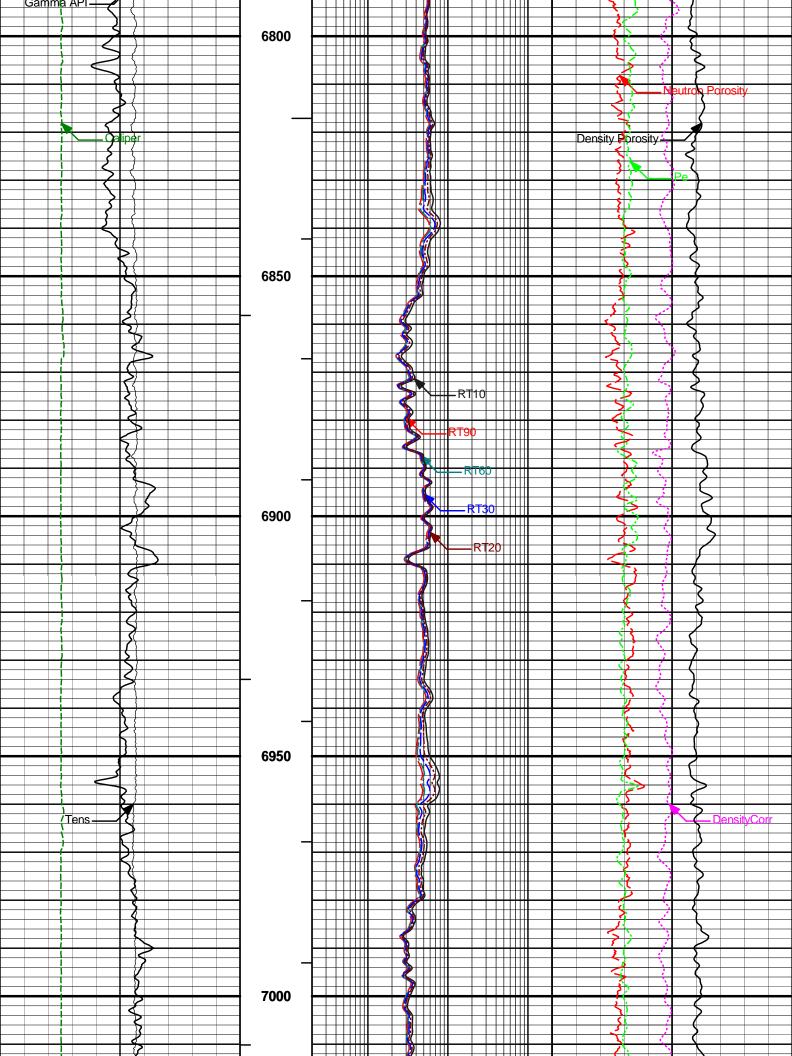


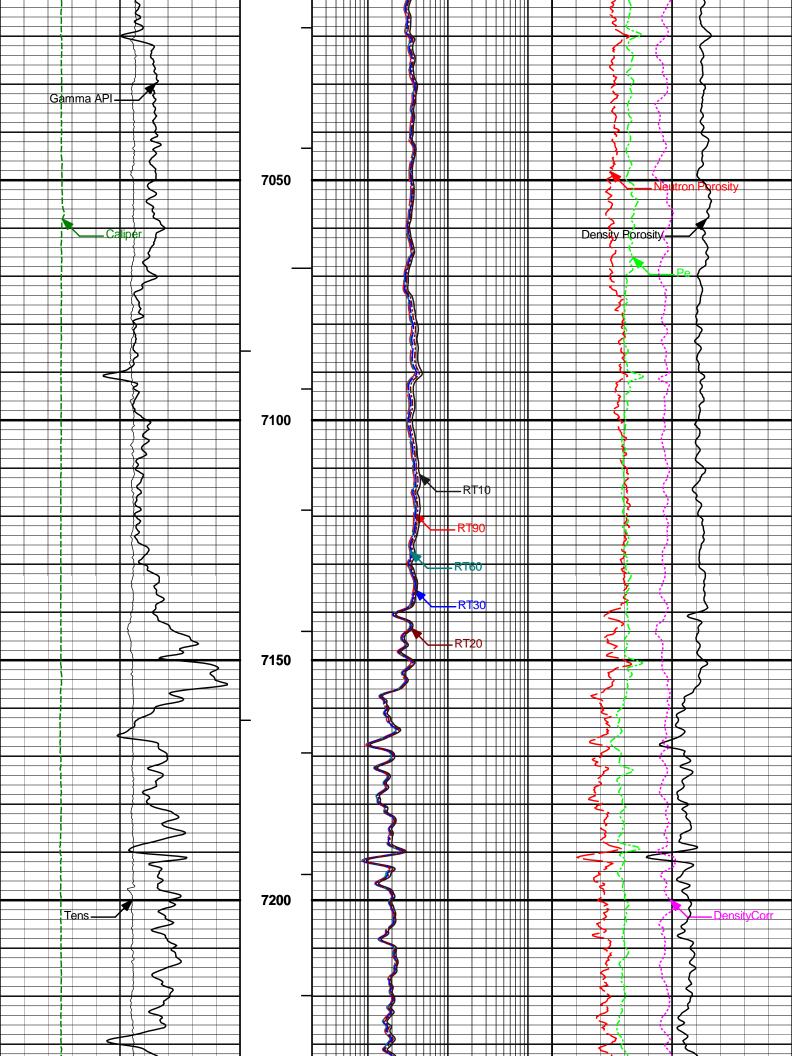


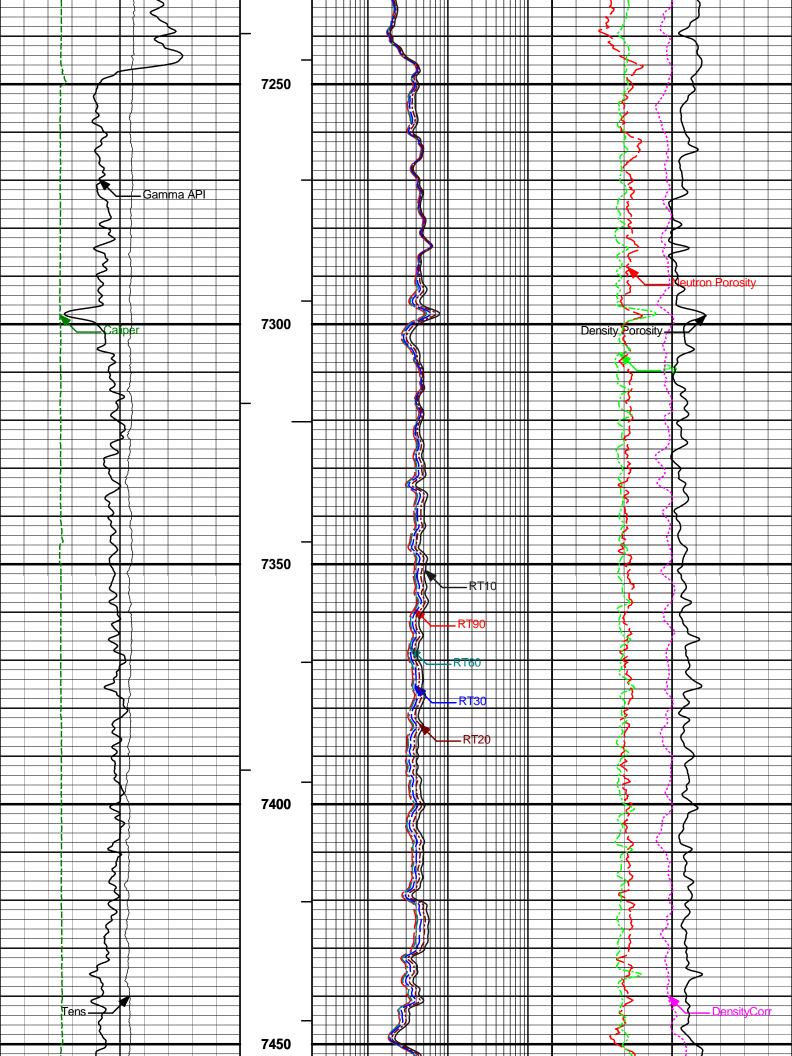


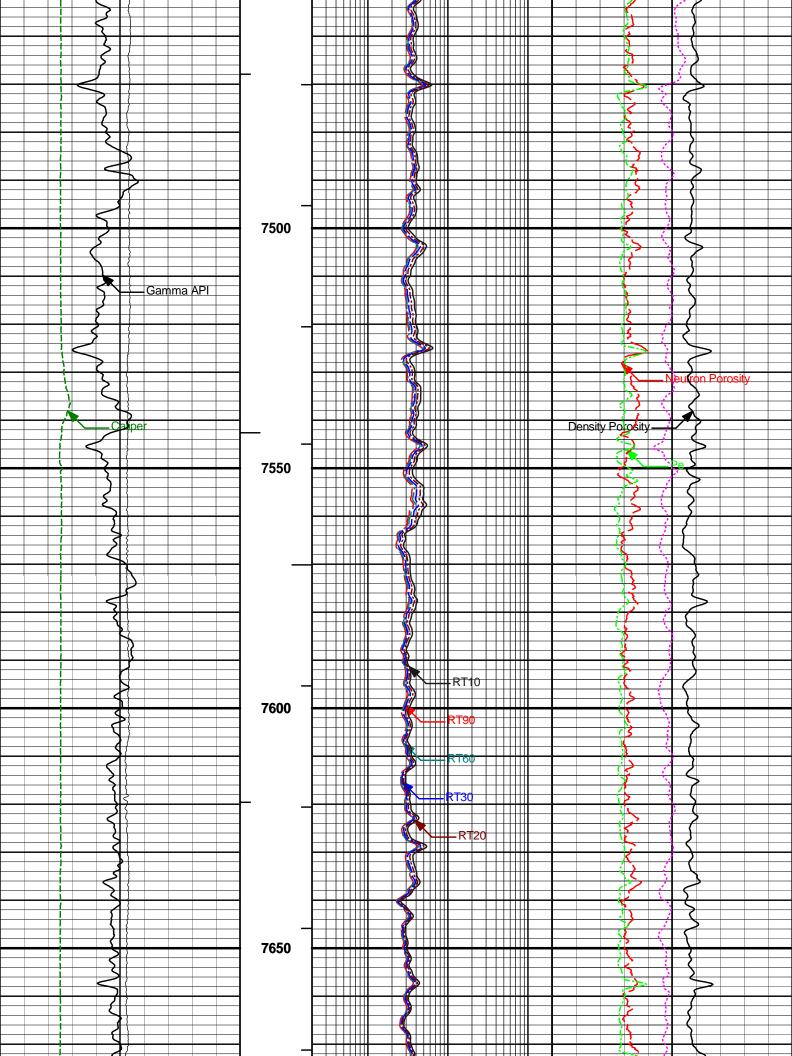


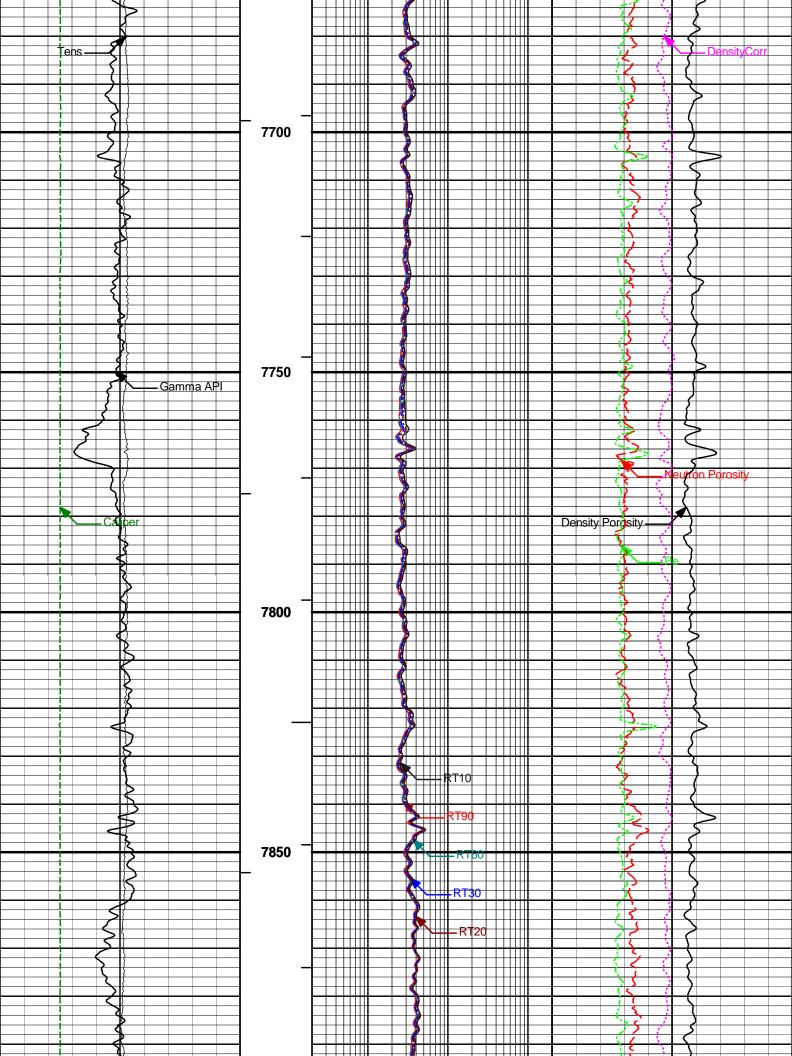


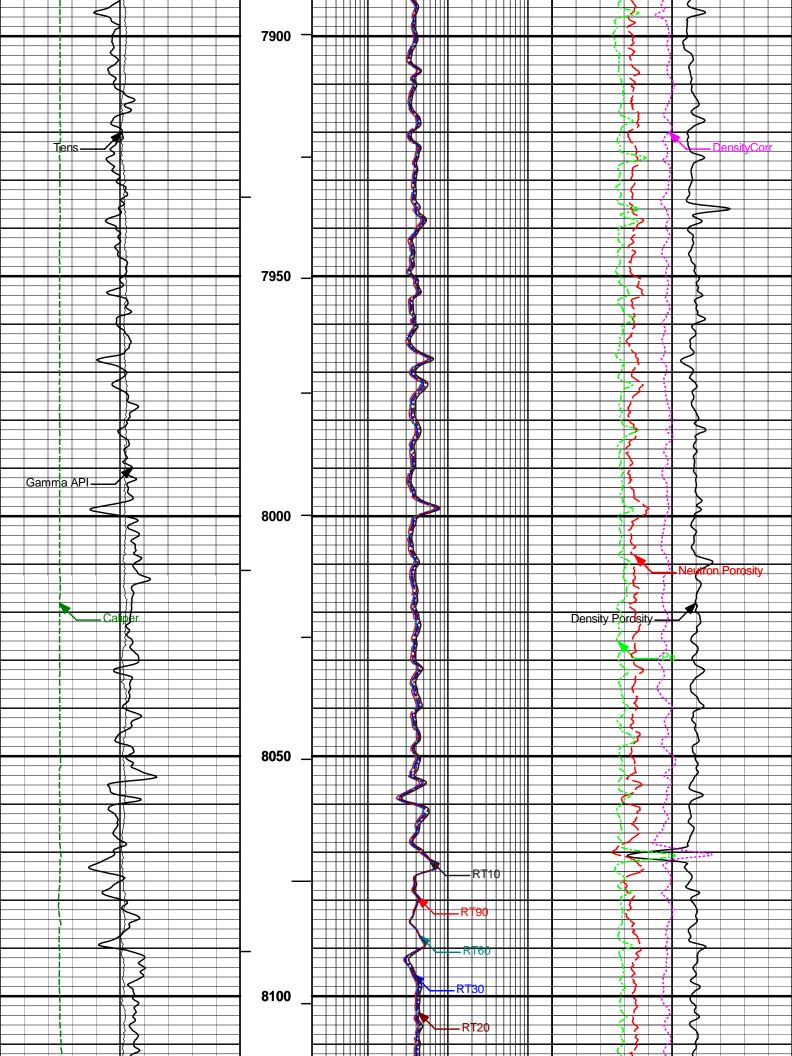


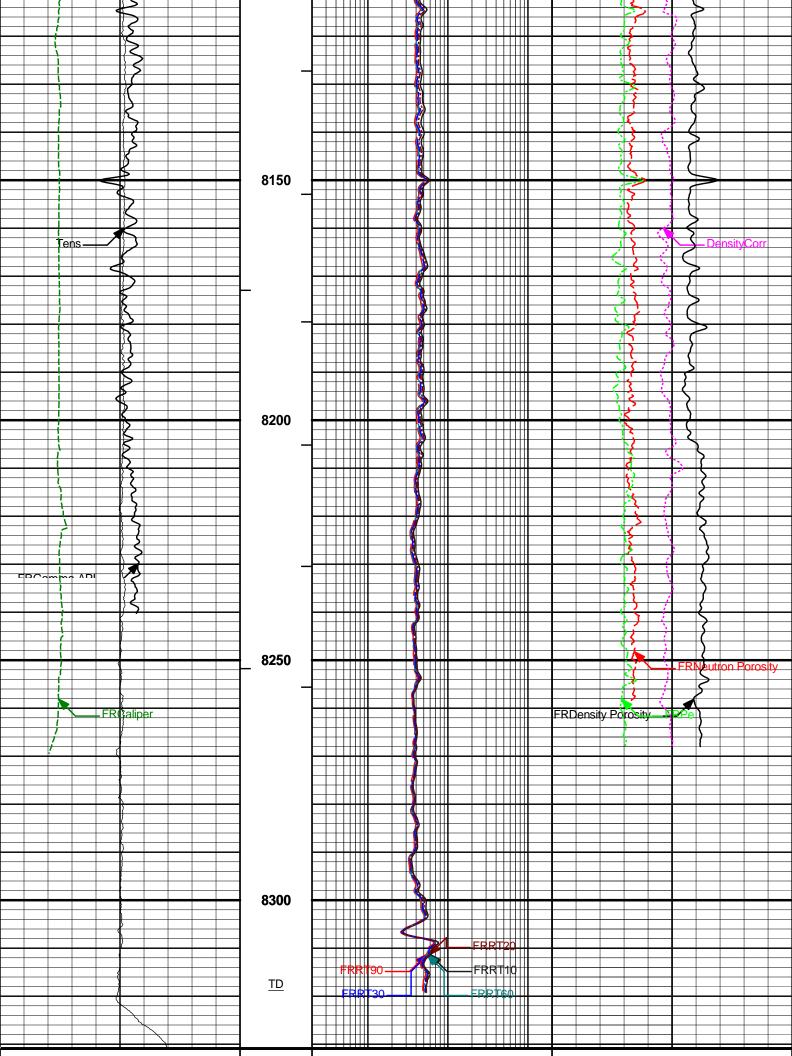


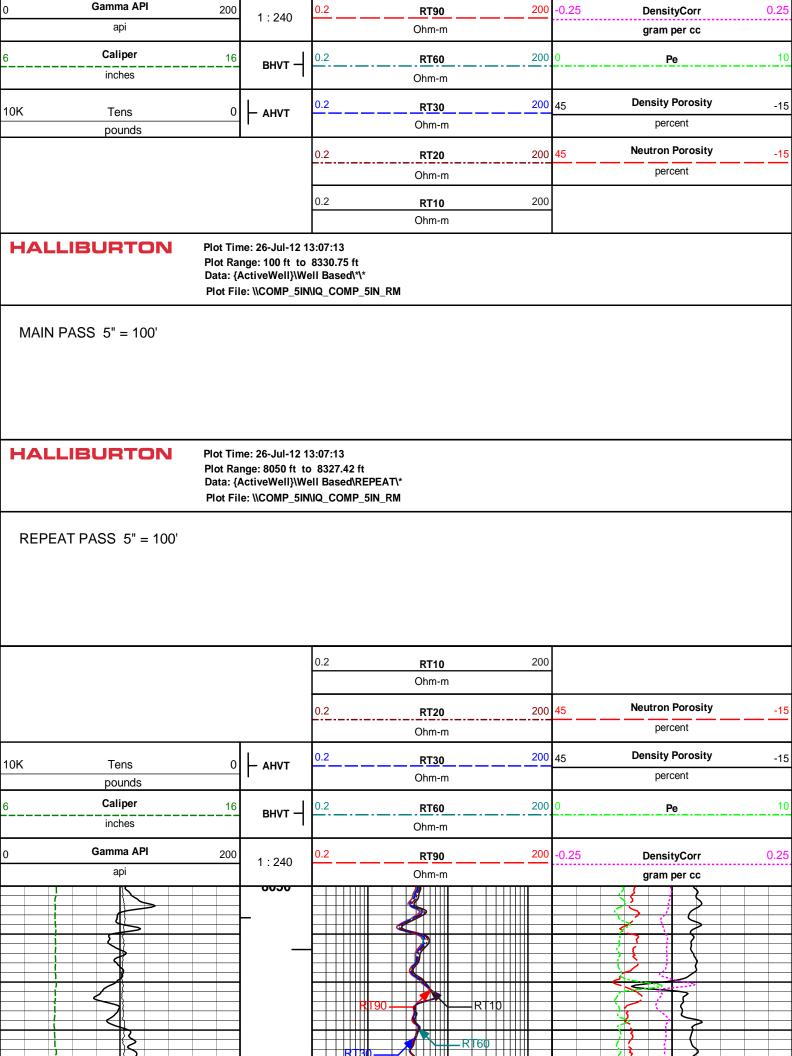


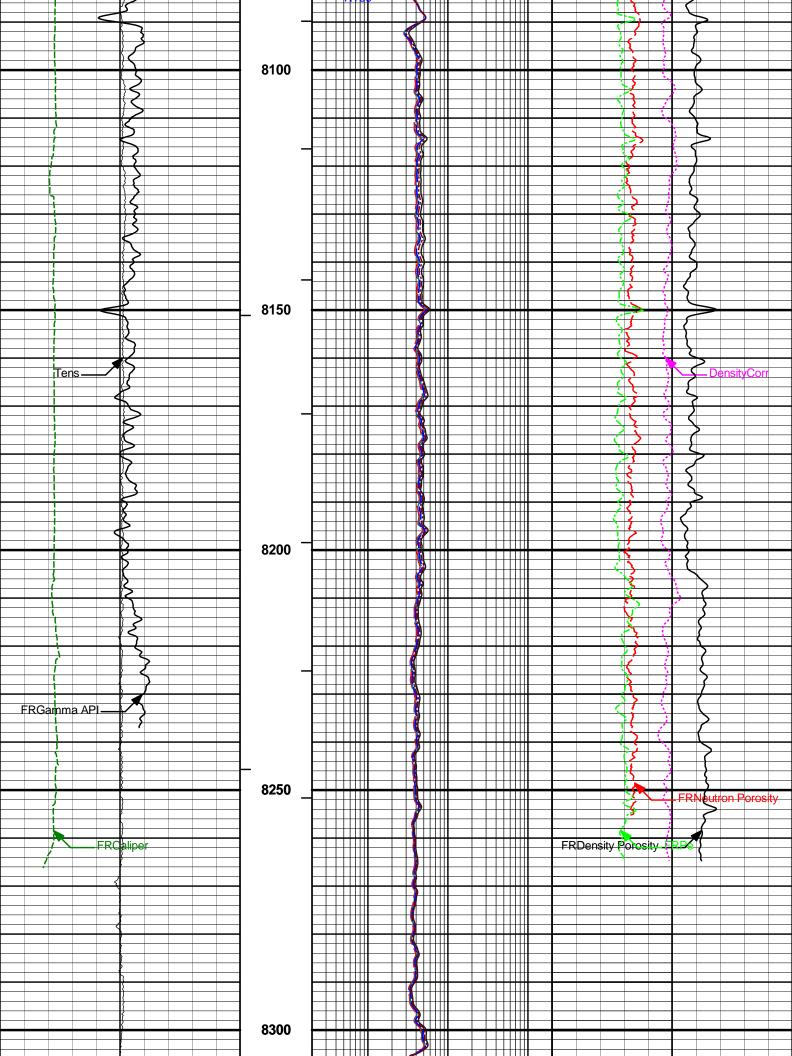


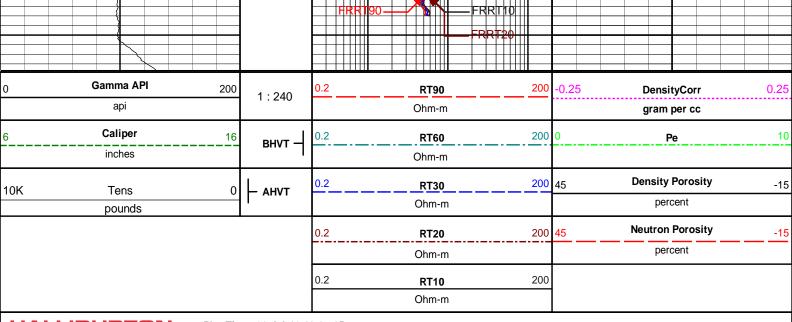












HALLIBURTON Plot Time: 26-Jul-12 13:07:15

Plot Range: 8050 ft to 8327.42 ft
Data: {ActiveWell}\Well Based\REPEAT*
Plot File: \\COMP_5IN\IQ_COMP_5IN_RM

REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

D	DWNHOLE TENSION SHOP CALIBRATION

Tool Name: RWCH - 3377 Reference Calibration Date: 15-Jun-12 09:15:37

Engineer: C. GULLETT Calibration Date: 10-Jul-12 10:22:46

Software Version: WL INSITE R3.6.0 (Build 3) Calibration Version: 1

DOWNHOLE LOAD CELL					
Measurement	Tool Value	Measurement	Calibrated	Units	
Low	-1787.15	-26.41	0.00	lbs	
High	13542.70	2043.64	1728.10	lbs	

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10995697 Reference Calibration Date: 09-Oct-11 12:29:59

Engineer: K. GALLOWAY Calibration Date: 21-Apr-12 15:35:46

Software Version: WL INSITE R3.4.4 (Build 2) Calibration Version: 1

Calibrator Source S/N: JL037208-08

Equivalent Calibrator API Reference:225.9 api

Calibrator API Reference:222.00 api

Measurement	Measured	Calibrated	Units
Background	14.6	13.7	api
Background + Calibrator	256.4	239.6	api
Calibrator	241.8	225.9	api

CSNG-FS SHOP CALIBRATION

Tool Name: CSNG - 10846349 Reference Calibration Date: 31-Dec-10 12:07:50

Engineer: K. GALLOWAY Calibration Date: 21-Apr-12 14:17:40

Software Version: WL INSITE R3.4.4 (Build 2) Calibration Version: 1

Source SN: JL037208-08

TITANIUM CASE	Measured	Calibrated	Units
60 KEV Peak Channel #	48.0	48.0	Channel #
239 KEV Peak Channel #	23.3	23.6	Channel #
583 KEV Peak Channel #	52.2	53.2	Channel #
2614 KEV Peak Channel #	214.5	218.5	Channel #
Calibrate Temperature	72.4	34.0	degF

Pass/Fail Summary	Centroid
239 KEV Peak	Passed
583 KEV Peak	Passed
2614 KEV Peak	Passed

Blanket Reference Value: 222.00 API

Calibrator Value: 252.1 API

	Counts	Units	Measured (Calibrated	Units
Thorium Blanket	1293.0	CPS	268.7	264.1	API
Background	58.5	CPS	31.3	12.0	API

Gamma Ray Gain: 1.03

Expected Gain Range: 0.85 - 1.15 Gamma Gain Check: Passed

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11059108 Reference Calibration Date: 22-Dec-11 10:53:15

Engineer: S. MATHESON Calibration Date: 20-Feb-12 12:30:58

Software Version: WL INSITE R3.4.4 (Build 2) Calibration Version: 1

Logging Source S/N: 21484B Tank Serial Number: 11020262

Reference value assigned to Tank: 52.950

Snow Block S/N: 0435

Calibration Tank Water Temperature: 63 degF Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS				
Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.992	0.993	0.900 - 1.100	

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement Current Reading Calibrated Change Control Line (Previous Coef.) (New Coef.)				
Porosity (decp):	0.2178	0.2180	0.0003	+/- 0.0020
Calibrated Ratio:	9.96	9.97	0.009	+/- 0.050

VERIFIER				
Measurement Value Control Limit				
Snow-Block Porosity (decp):	0.0437	0.02000 - 0.09000		

PASS/FAIL SUMMARY

Background Check: Passed
Gain-Range Check: Passed
Snow-Block Check: Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 11059108 Reference Calibration Date: 20-Feb-12 12:30:58

Engineer: C. GULLETT Calibration Date: 05-Jul-12 13:47:55

Software Version: WL INSITE R3.6.0 (Build 3) Calibration Version: 1

Logging Source S/N: 21484B Snow Block S/N: 0435

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0437	0.0424	-0.0013	+/- 0.0150

PASS/FAIL SUMMARY			
Block Change Check:	Passed		
Snow Block Stat Check:	Passed		
Temperature Check:	Passed		

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10951320 Reference Calibration Date: 05-Jul-12 11:57:32

Engineer: C. GULLETT Calibration Date: 05-Jul-12 13:11:38

Software Version: WL INSITE R3.6.0 (Build 3) Calibration Version: 1

Host Tool Name: DSNT - 11059108

CALIBRATION COEFFICIENTS					
Measurement	Previous Value	New Value	Control Limit On New Value		
Pad Offset	-2096.27	-2083.22	-7000.001000.00		
Pad Gain	0.0003786	0.0003783	0.000200 - 0.000600		
Arm Offset	-3798.27	-3905.40	-5000.00 - 3000.00		
Arm Gain	0.0005469	0.0005660	0.000300 - 0.000700		
Arm Power	-0.000004584	-0.000005424	-0.000010000 - 0.000010000		

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS									
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value					
PAD EXTENSION:									
Small Ring (in)	2.00	2.00	0.00	+/- 0.20					
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20					
RING DIAMETER:									
Small Ring (in)	6.49	6.50	0.01	+/- 0.20					
Medium Ring (in)	8.19	8.25	0.06	+/- 0.20					
Large Ring (in)	14.89	15.00	0.11	+/- 0.20					

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed Ring-Measurement Check: Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 5871P_1320M Reference Calibration Date: 23-Feb-12 18:57:10

Engineer: K. GALLOWAY Calibration Date: 19-Mar-12 13:51:12

Software Version: WL INSITE R3.4.4 (Build 2) Calibration Version: 1

Logging Source S/N: 5176-GW

 Aluminum Block S/N: 11039029
 Density: 2.605g/cc
 Pe: 3.175

 Magnesium Block S/N: 11072359
 Density: 1.693g/cc
 Pe: 2.610

DENSITY CALIBRATION SUMMARY								
Measurement	Previous Value	New Value	Control Limit					
Near Bar Gain	1.0471	1.0789	0.90 - 1.10					
Near Dens Gain	1.0195	1.0545	0.90 - 1.10					
Near Peak Gain	1.0309	1.0593	0.90 - 1.10					
Near Lith Gain	1.0294	1.0810	0.90 - 1.10					
Far Bar Gain	1.0144	1.0167	0.90 - 1.10					
Far Dens Gain	1.0020	1.0050	0.90 - 1.10					
Far Peak Gain	0.9967	1.0027	0.90 - 1.10					
Far Lith Gain	0.9793	0.9825	0.90 - 1.10					
Near Bar Offset	-0.2570	-0.5428	NONE					
Near Dens Offset	-0.0266	-0.3302	NONE					
Near Peak Offset	-0.1256	-0.3514	NONE					
Near Lith Offset	-0.1361	-0.5562	NONE					
Far Bar Offset	-0.0334	-0.0611	NONE					
Far Dens Offset	0.0655	0.0335	NONE					
Far Peak Offset	0.0942	0.0384	NONE					
Far Lith Offset	0.1966	0.1682	NONE					
Near Bar Background	898.69	897.46	700 - 1450					
Near Dens Background	296.88	293.97	230 - 480					
Near Peak Background	127.39	128.43	100 - 210					
Near Lith Background	158.95	158.84	125 - 260					
Far Bar Background	519.39	520.49	450 - 900					
Far Dens Background	203.83	204.10	175 - 345					
Far Peak Background	79.84	80.08	70 - 140					
Far Lith Background	82.90	83.66	75 - 145					

CALIBRATION BLOCK SUMMARY								
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change				
MAGNESIUM								
Density (g/cc)	1.679	1.693	0.014	+/- 0.015				
Pe	2.620	2.562	-0.058	+/- 0.150				
ALUMINUM								
Density (g/cc)	2.592	2.605	0.013	+/- 0.01500				
Pe	3.143	3.127	-0.016	+/- 0.150				

TOOL SUMMARY

Measurement	Near D	etector	Far Detector			
	Value	Control Limits	Value	Control Limits		
QUALITY						
Background	-0.0009	+/- 0.0110	-0.0021	+/- 0.0140		
Magnesium Block	-0.0019	+/- 0.0110	-0.0022	+/- 0.0140		
Aluminum Block	-0.0007	+/- 0.0110	-0.0006	+/- 0.0140		
Resolution	9.75	6.00 - 11.50	9.32	6.00 - 11.50		
Internal Verifier(B+D+P+L)	1479	1200 - 2700	888	800 - 1700		

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT Pad - 5871P_1320M Reference Calibration Date: 19-Mar-12 13:51:12

Engineer: C. GULLETT Calibration Date: 05-Jul-12 12:07:31

Software Version: WL INSITE R3.6.0 (Build 3) Calibration Version: 1

Pad Temperature: 57.6 degF

DENSITY FIELD CALIBRATION SUMMARY							
Measurement	Shop	Field	Change	Control Limit +/-			
Near (B+D+P+L) cps	1478.699	1468.530	-10.169	15.502			
Far (B+D+P+L) cps	888.335	877.227	-11.108	16.240			
Near Resolution	9.75	9.87	0.120	0.50			
Far Resolution	9.32	9.55	0.230	1.00			

PASS/FAIL SUMMARY					
Bkg Quality Check:	Passed				
Bkg Resolution Check:	Passed				
Bkg Verification Check:	Passed				

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 10951320 Reference Calibration Date: 05-Jul-12 13:11:38

Engineer: C. GULLETT Calibration Date: 05-Jul-12 13:14:57

Software Version: WL INSITE R3.6.0 (Build 3) Calibration Version: 1

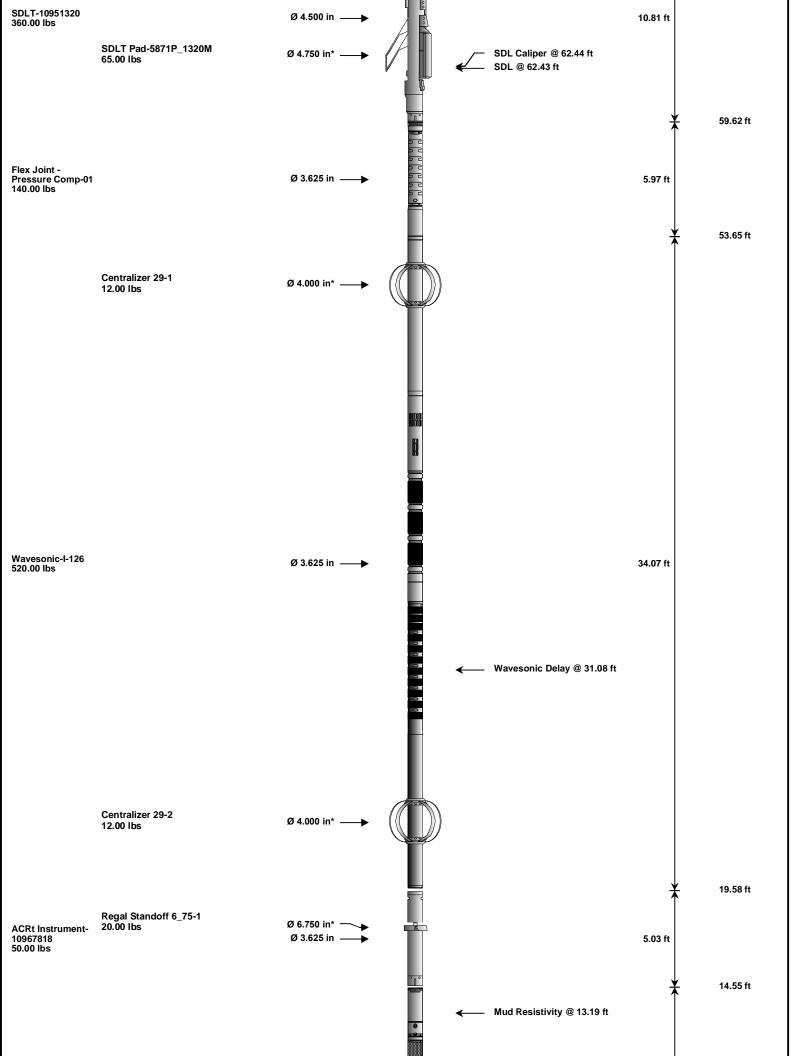
MEASURED CALIPER VALUES						
Measurement	Change	Control Limit On New Value				
Pad Extension	3.75	3.75	0.00	+/- 0.10		
Ring Diameter	8.25	8.34	0.09	+/- 0.15		

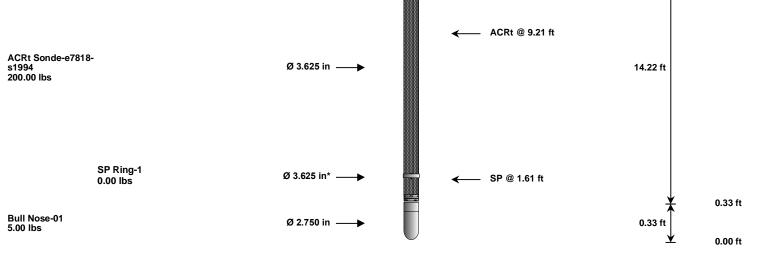
PASS/FAIL SUMMA	RY
Pad Extension Check:	Passed
Diameter Check:	Passed

Tool Name: ACRt Sonde - e7818-s1994 **Reference Calibration Date:** 13-Sep-10 13:20:58 **Engineer:** M. SCHMELING **Calibration Date:** 25-Jan-11 13:33:16 **Software Version:** WL INSITE R3.2.1 (Build 7) **Calibration Version:** 1 **Host Tool Name: TYPICAL GAIN RANGE** Subarray R12KHz R36KHz R72KHz **Upper Upper** Lower (mmho/m) Lower (mmho/m) Lower (mmho/m) Upper A1 (80") 0.95 1.02 1.05 0.95 1.01 1.05 0.95 1.01 1.05 0.95 1.02 1.05 0.95 1.02 1.05 0.95 1.01 1.05 A2 (50") A3 (29") 0.95 1.02 1.05 0.95 1.01 1.05 0.95 1.01 1.05 A4 (17") 0.95 1.01 1.05 0.95 1.00 1.05 0.95 1.00 1.05 A5 (10") N/A N/A N/A 0.95 1.00 1.05 0.95 1.00 1.05 A6 (6") N/A N/A N/A 0.95 0.99 1.05 0.95 0.98 1.05 **TYPICAL SONDE OFFSET RANGE Subarray** R12KHz R36KHz R72KHz Lower Lower (mmho/m) **Upper** (mmho/m) **Upper** (mmho/m) Upper Lower -5 -1.66 2 -4.33 -2 -5.50 A1 (80") -6 -8 -2 0 0 0 -7 -3.04 -7 -7 -4.22 A2 (50") -4.35A3 (29") -27 -9 -9 -3 -7 -1 -11.93 -3.57 -3.13A4 (17") -180 -103.72 -60 -32.39 -15 -25.05 -13 -45 -39 A5 (10") N/A N/A N/A -150 -107.63 -50 -80 -55.86 -10 A6 (6") N/A N/A N/A 175 288.30 525 90 151.55 270 TRANSMITTER CURRENT GAIN **R-MUD VERIFICATION** Upper Lower Measured **Signal** Lower R **Upper** Signal (ohm-m) (ohm-m) (ohm-m) 12K 0.6 0.92 Mud Cell 1.3 0.95 0.99 1.05 36K 1.0 1.28 2.0 72K 1.0 2.0 1.51 **PASS/FAIL SUMMARY** GAIN RANGE CHK **PASS** SONDE OFFSET RANGE CHK **PASS TX CURRENT GAIN PASS** Rmud VERIFICATION **PASS** TOOL OK TO LOG **CALIBRATION SUMMARY** Sensor Shop **Field Post Difference Tolerance Units RWCH-3377 DH Tension Zero** 0.00 -----0.00 lbs **DH Tension Cal** 1728.10 0.00 lbs GTET-10995697 Gamma Ray Calibrator 225.9 -----0.0 +/- 9.00 api CSNG-10846349 0.0 60 KEV Peak Channel # 48.0 Channel # 239 KEV Peak Channel # 23.6 0.0 Channel # 583 KEV Peak Channel # 53.2 0.0 Channel # ---------------2614 KEV Peak Channel # 0.0 218.5 Channel #

	<u> </u>			1-11059108				
Snow-Block Pord	osity	0.0437	0.0424			0.0013	+/- 0.0150	decp
			SDL	Г-10951320				
Pad Extension		3.75	3.75			0.00	+/-0.10	in
Ring Diameter		8.25	8.34			-0.09	+/-0.15	
Tang Diameter		0.23				0.03	17-0.13	111
SDLT Pad-5871P_1320M Near(B+D+P+I) 1478 699 1468 530 10 169 +/-15 502 cps								
Near(B+D+P+L)		1478.699	1468.530			10.169	+/-15.502	•
Far(B+D+P+L)		888.335	877.227			11.108	+/-16.240	cps
			ACRt Son	de-e7818-s19	994			
Mud Cell		0.99				0.00		ohm-m
Doto: CP ALCOP	#4\0004 OHAD\IDI						Do	40. 40 Iul 42 44.40.20
HALLIB	URTON							
HALLIB	OR I OIV							
		_ -		.				
		TO	OL STRING	<u>DIAGRAI</u>	M RE	PORT		
								Longth Accumulated
Description	Overbody Description	on	O.D.	Diagram		Sensors @ D	elays	Length Length
								402.06.44
				1			7	103.06 ft
RWCH-3377 135.00 lbs			Ø 3.625 in -		. —	Load Cell @ 99.38 ft	6.25 ft	
					\leftarrow	BH Temperature @ 9	8.81 ft	
					•			
								<u>√</u> 96.81 ft
				, c			7	7 30.01 II
GTET-10995697			Ø 3.625 in				0.53.4	
165.00 lbs			אוו פצס.ט ש				8.52 ft	
					_	GammaBay @ 00.75		
					←	GammaRay @ 90.75 f	T.	
							7	<u>∕</u> 88.29 ft
				, ,			1	`
00116 155 155 15	UnivWearRing3.6-		Ø 4.200 in* —					
CSNG-10846349 114.00 lbs	10846349 5.00 lbs		Ø 3.625 in				8.17 ft	
						00110 0 00 00		
					←	CSNG @ 82.66 ft		
								<u>∕</u> 80.12 ft
				<u> </u>			7	ου.12 π
	DSN Decentralizer-							
	10735512 6.60 lbs		Ø 5.000 in*					
DSNT-11059108 174.00 lbs	ชนเ บช.ช		Ø 3.625 in —				9.69 ft	
774.00 IUS				Vn =				
				La	,	DSN For @ 72 40 #		
						DSN Far @ 73.19 ft DSN Near @ 72.44 ft		
						2011 116ai @ /2.44 il		
								,
				-			7	70.44 ft

DSNT-11059108





Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	3377	135.00	6.25	96.81	300.00
GTET	Gamma Telemetry Tool	10995697	165.00	8.52	88.29	60.00
CSNG	Compensated Spectral Natural Gamma	10846349	114.00	8.17	80.12	15.00
UWR3P6	Universal Wear Ring 3 5-8 inch	10846349	5.00	0.35	* 84.20	300.00
DSNT	Dual Spaced Neutron	11059108	174.00	9.69	70.44	60.00
DCNT	DSN Decentralizer	10735512	6.60	5.13	* 73.77	300.00
SDLT	Spectral Density Tool	10951320	360.00	10.81	59.62	60.00
SDLP	Density Insite Pad	5871P_1320M	65.00	2.55	* 61.83	60.00
FLEX	Flex Joint - Pressure Compensated	01	140.00	5.97	53.65	300.00
WSTT	WaveSonic Insite	126	520.00	34.07	19.58	30.00
OBCEN	Centralizer - 29 in.Overbody	1	12.00	2.42	* 49.94	300.00
OBCEN	Centralizer - 29 in.Overbody	2	12.00	2.42	* 21.93	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10967818	50.00	5.03	14.55	300.00
RSOF	Regal Standoff 6.75in	1	20.00	0.52	* 17.32	300.00
ACRt	Array Compensated True Resistivity Sonde Section	e7818-s1994	200.00	14.22	0.33	300.00
SP	SP Ring	1	0.00	0.25	* 1.61	300.00
BLNS	Bull Nose	01	5.00	0.33	0.00	300.00

COMPANY GREAT BEAR PETROLEUM

WELL ALCOR #1

Data: GB_ALCOR_#1\0001 QUAD\IDLE

Total

FIELD WILDCAT

COUNTY **NORTH SLOPE** STATE **ALASKA**

HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMPENSATED TRUE RESISTIVITY

1,983.60

103.06 * Not included in Total Length and Length Accumulation.

Date: 10-Jul-12 09:33:14