HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY	KEER-MCGEE OIL & GAS ONSHORE LP
WELL	JESSER 4-2S
FIELD	WATTENBERG
COUNTY	WELD
STATE	CO

COMPANY KEER-MCGEE OIL & GAS ONSHORE LP

WELL JESSER 4-2S

FIELD WATTENBERG

COUNTY WELD **STATE** CO

API No. 05123316730000

Location
SURFACE: 1178' FNL & 1122' FWL NWNW
BOTTOM: 772' FNL & 476' FWL NWNW
LAT: 40.08407° N
LONG: 104.74968° W

Other Services:

Sect. 2 Twp. 1N Rge. 66W

Permanent Datum	GL	Elev. 5141.0 ft	Elev.: K.B. 5153.0 ft
Log measured from	KB	15.0 ft above perm. Datum	D.F. 5152.0 ft
Drilling measured from	KB		G.L. 5138.0 ft

Date	13-Jan-11		
Run No.	ONE		
Depth - Driller	5055.00 ft		
Depth - Logger	5057.0 ft		
Bottom - Logged Interval	5048.0 ft		
Top - Logged Interval	CASING		
Casing - Driller	8.625 in @ 1022.0 ft	@	@
Casing - Logger			
Bit Size	7.875 in	@	@
Type Fluid in Hole	WATER BASED MUD		
Density / Viscosity	9.0 ppg / 26.00 s/qt	/	/
PH / Fluid Loss	9.50 pH /	/	/
Source of Sample	MUD CELL		
Rm @ Meas. Temperature	1.730 ohmm @ 75.00 degF	@	@
Rmf @ Meas. Temperature	1.50 ohmm @ 75.00 degF	@	@
Rmc @ Meas. Temperature	1.900 ohmm @ 75.00 degF	@	@
Source Rmf / Rmc	CHART / CHART	/	/
Rm @ BHT	0.88 ohmm @ 154.0 degF	@	@
Time Since Circulation	6.0 hr		
Time on Bottom	13-Jan-11 05:25		
Max. Rec. Temperature	154.0 degF @ 5057.0 ft	@	@
Equipment / Location	11454566 / BRIGHTON	/	/
Recorded By	C. GULLETT		
Witnessed By	T. BOWER		

Fold here

Service Ticket No.: 7898873 API Serial No.: 05123316730000 PGM Version: WL INSITE R3.2.3 (Build 5)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE					
Date	Sample No.				
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample					
Rm @ Meas. Temp		@		@	
Rmf @ Meas. Temp.		@		@	
Rmc @ Meas. Temp.		@		@	
Source Rmf	Rmc				
Rm @ BHT		@		@	
Rmf @ BHT		@		@	
Rmc @ BHT		@		@	

RESISTIVITY SCALE CHANGES			
Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA				
Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
ONE	ACRt	N/A	1.5" STANDOFF	N/A`
	E6758-S4352			

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	11294346	Serial No.		Serial No.	I440M319	Serial No.	11301132
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	102-T	Spacing		Log Type	GAMMA-GAMMA	Log Type	THERMAL
Type	SCINT.			Source Type	Cs137	Source Type	Am241Be
Length	8"	LSA [Y/N]		Serial No.	2770GW	Serial No.	DSN-434
Distance to Source		FWDA [Y/N]		Strength		Strength	

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONT	T.D.	CSG.	REC.	0	200				20%	0%	2.68 g/cc	20%	0%	SAND

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks:

RWCH-GTET-DSNT-SDLT-ACRt WERE RAN IN COMBINATION.

A.H.V. CALCULATED FOR 4.5" CASING.

CHLORIDES REPORTED AT 600 ppm.

YOUR CREW TODAY: M. BURNETT, G. DAVIS AND A. DUNCAN RIG: XTREME #11

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - BRIGHTON, CO - (303)-825-4346.

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.000	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	20.0	degF
	SHARED	TD	Total Well Depth	5055.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	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	Centered	
	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	0.250	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	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.680	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

Data: JESSER_4_2S\0001 TRIPLE\IDLE

Date: 13-Jan-11 05:34:51

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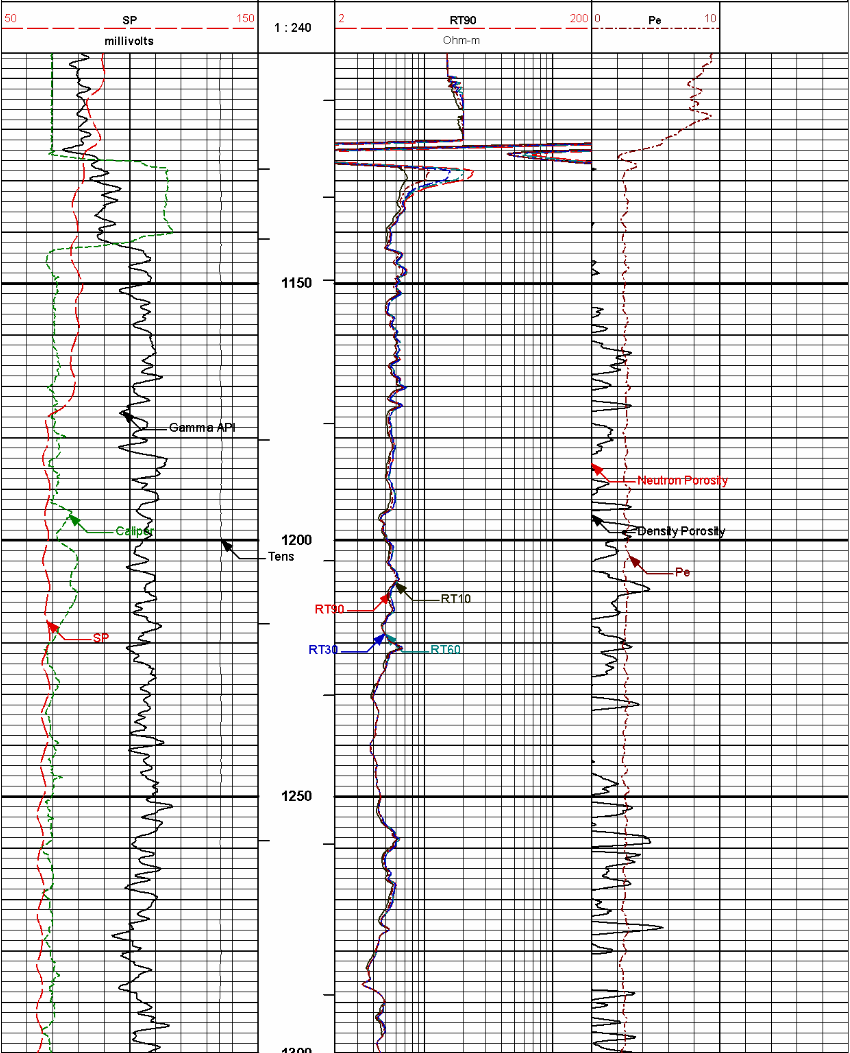
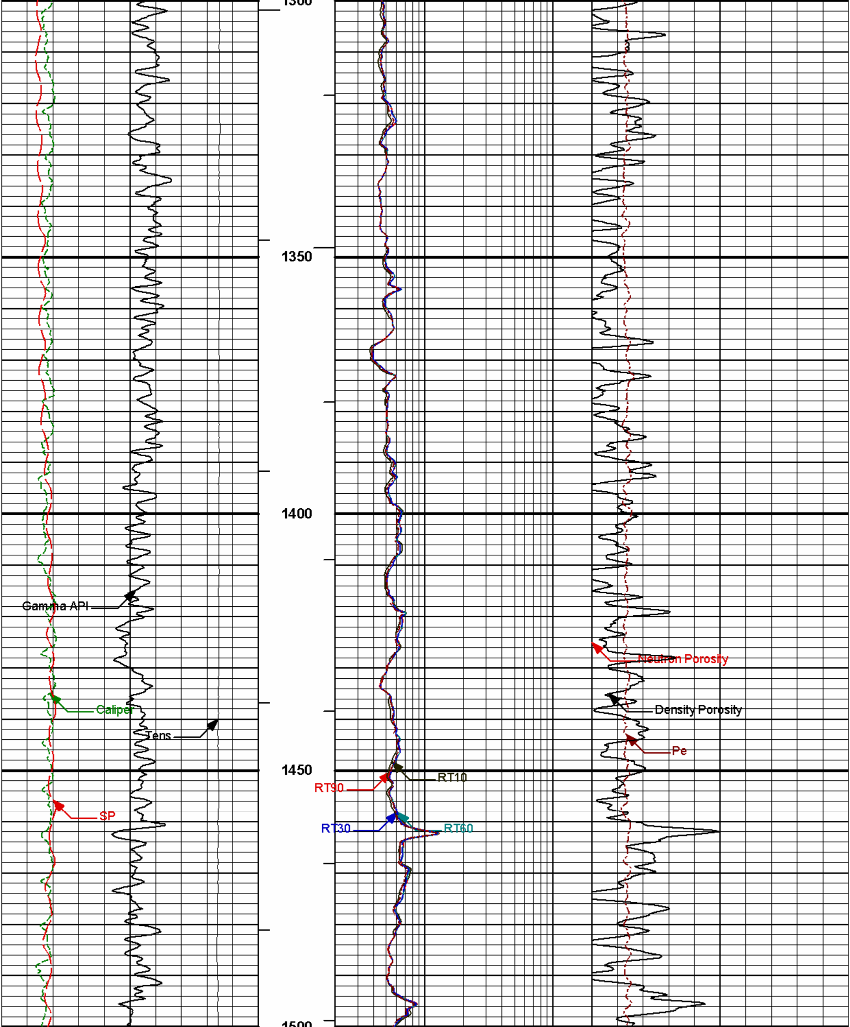
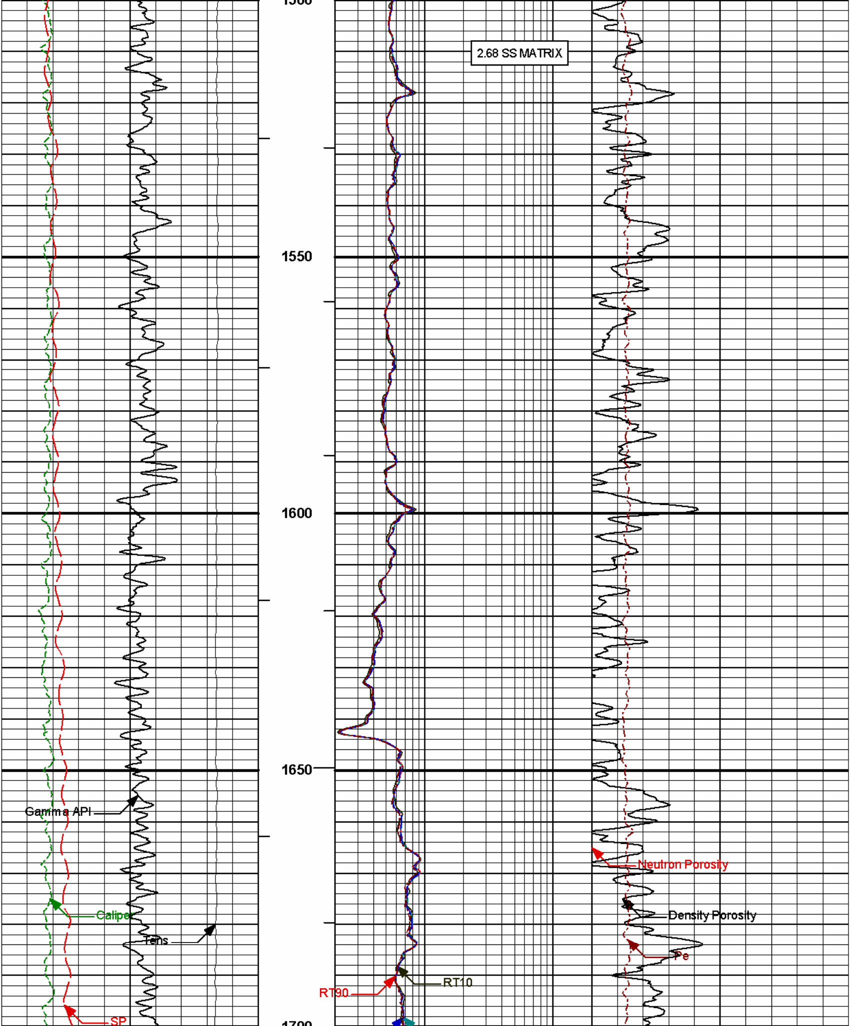
Plot Time: 13-Jan-11 08:24:41
Plot Range: 1105 ft to 5063.17 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003\*
Plot File: \\COMP\MAIN

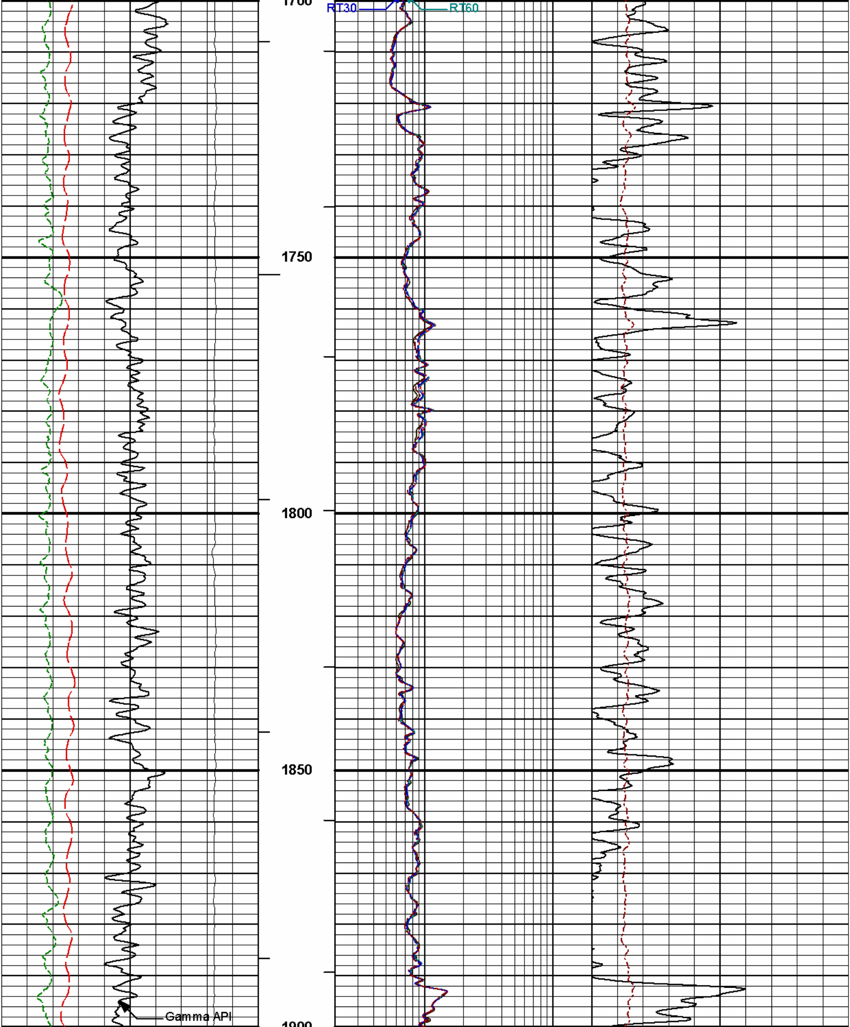
MAIN PASS 5" = 100'

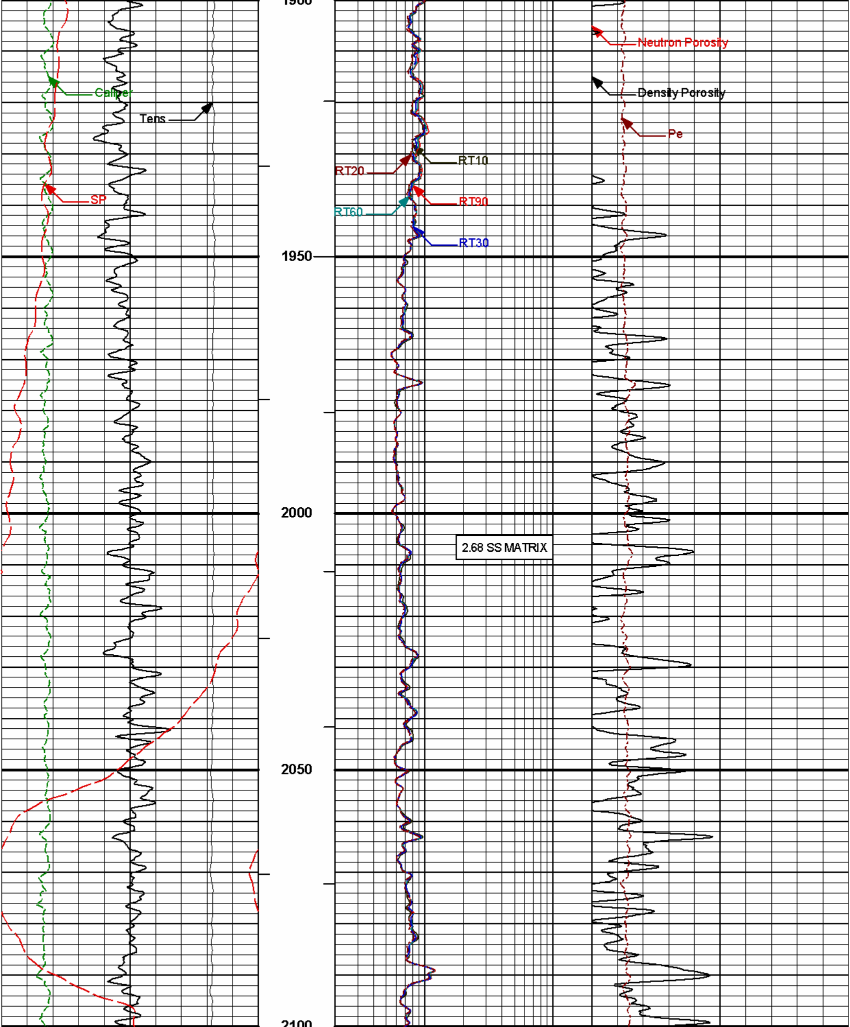
Track 1	Depth Track	Track 2	Track 5	Track 3
		2 **RT10** 200 Ohm-m		
10K **Tens** 0 pounds		2 **RT20** 200 Ohm-m		
6 **Caliper** 16 inches	BHVT	2 **RT30** 200 Ohm-m	20 **Neutron Porosity** 0 percent	
0 **Gamma API** 200 api	AHVT	2 **RT60** 200 Ohm-m	20 **Density Porosity** 0 percent	

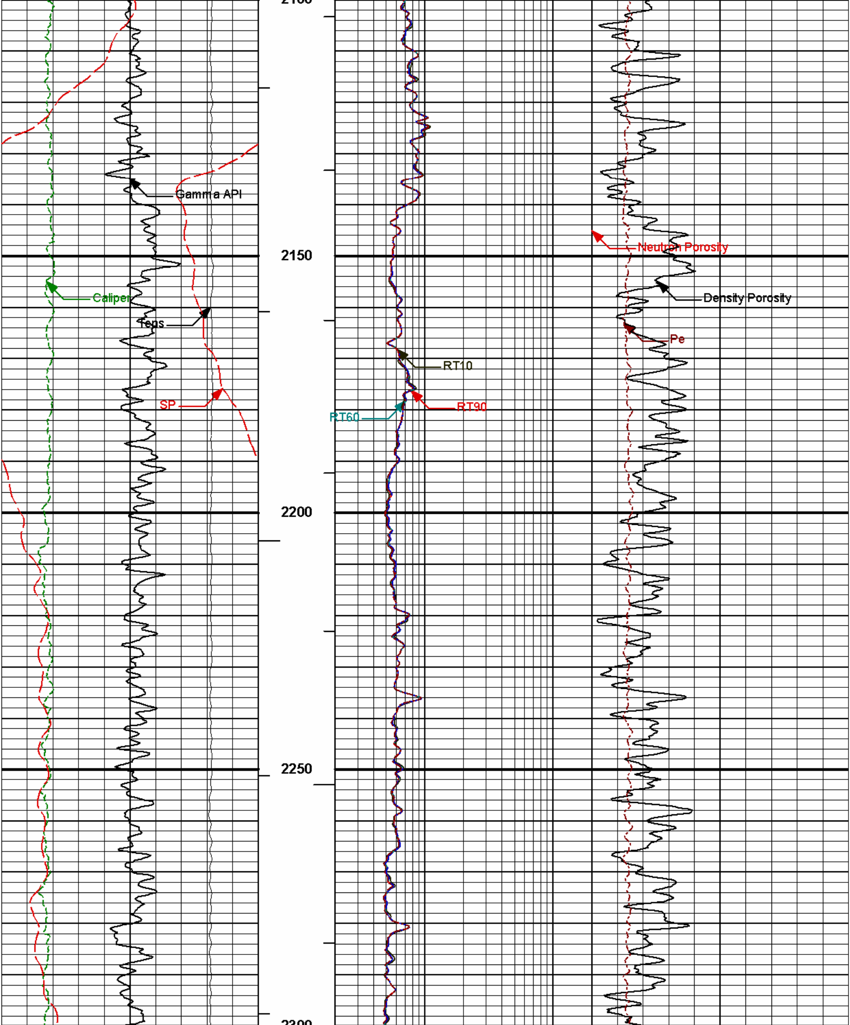


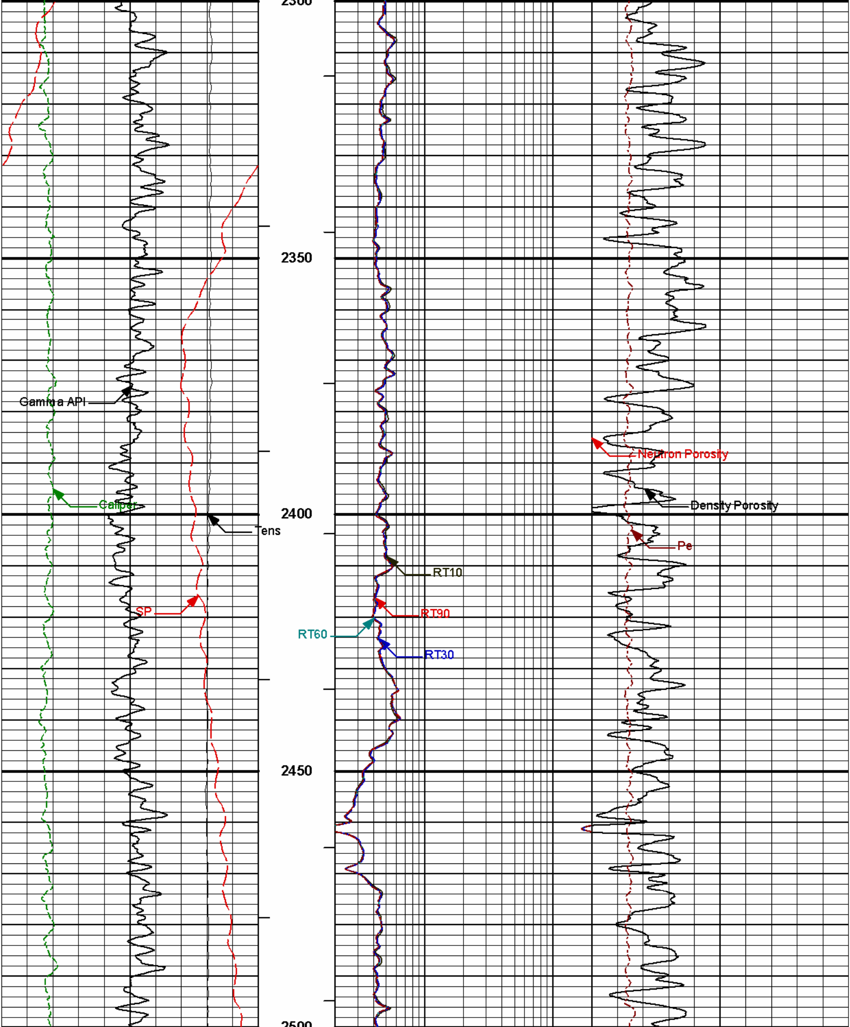


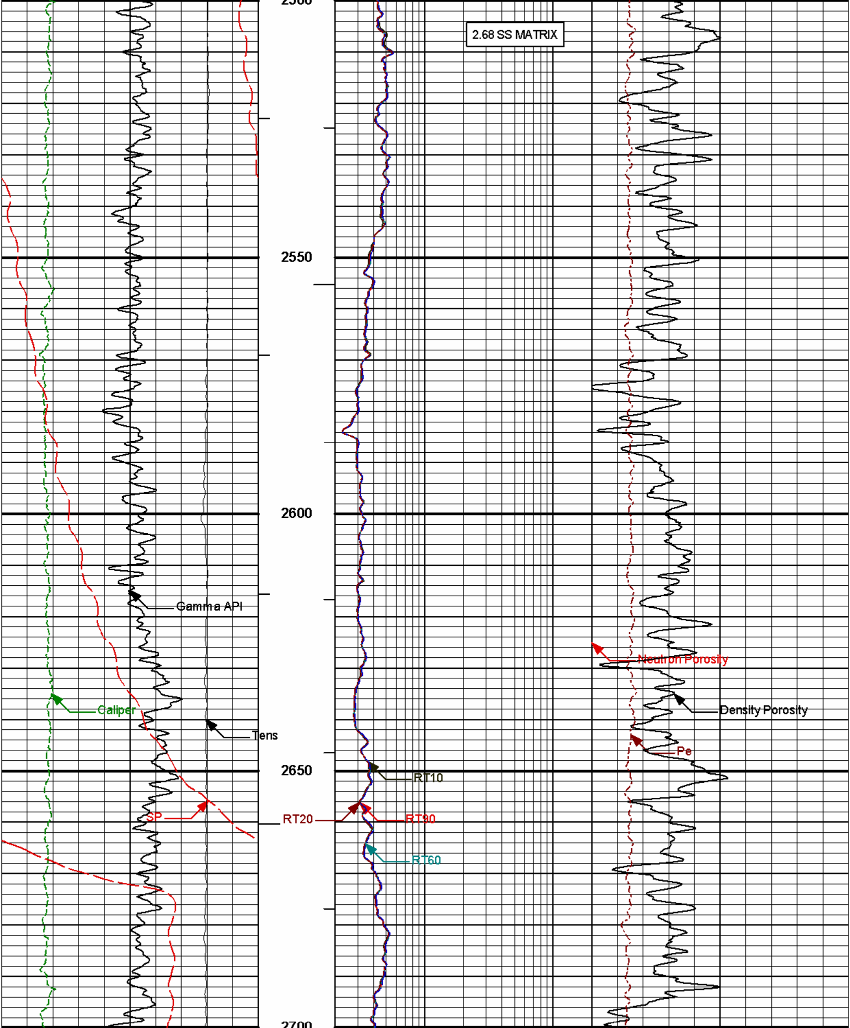


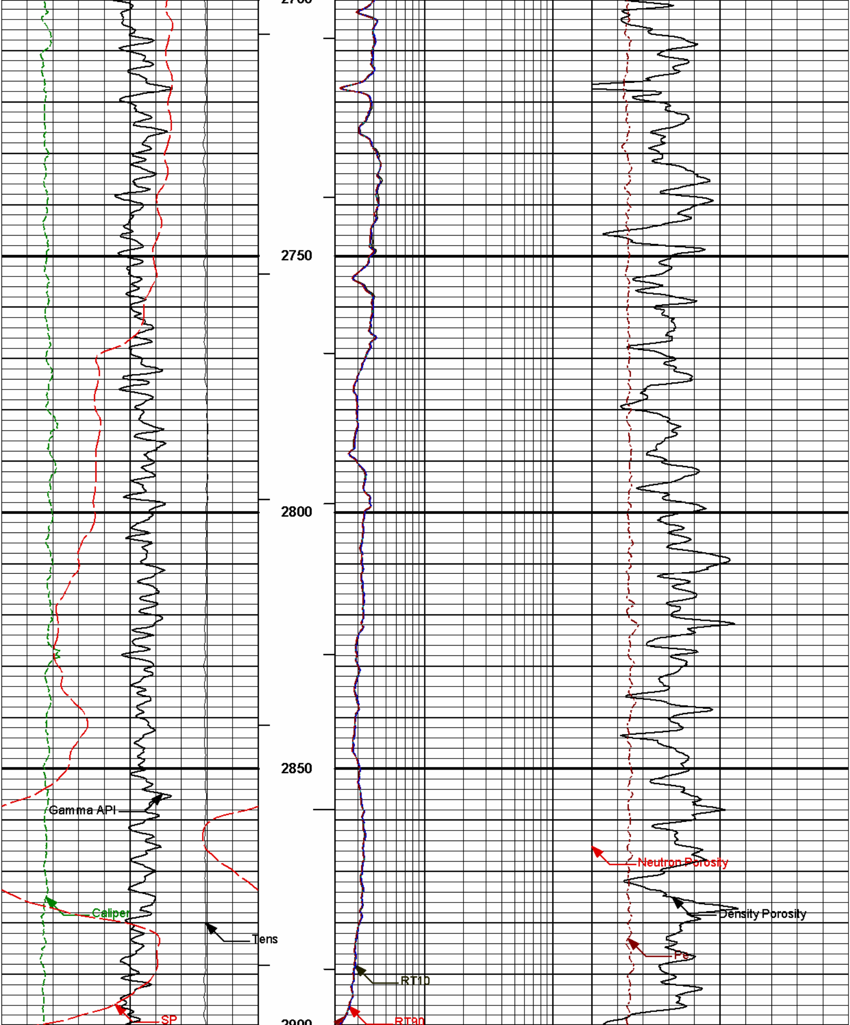


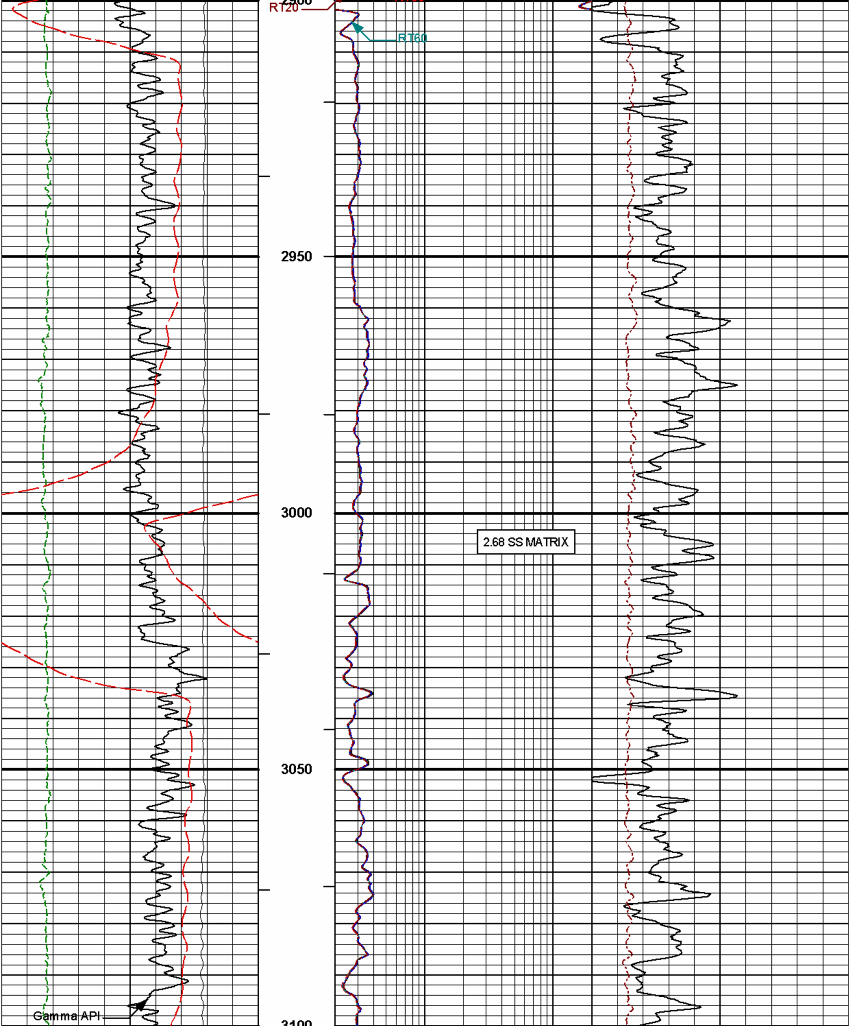


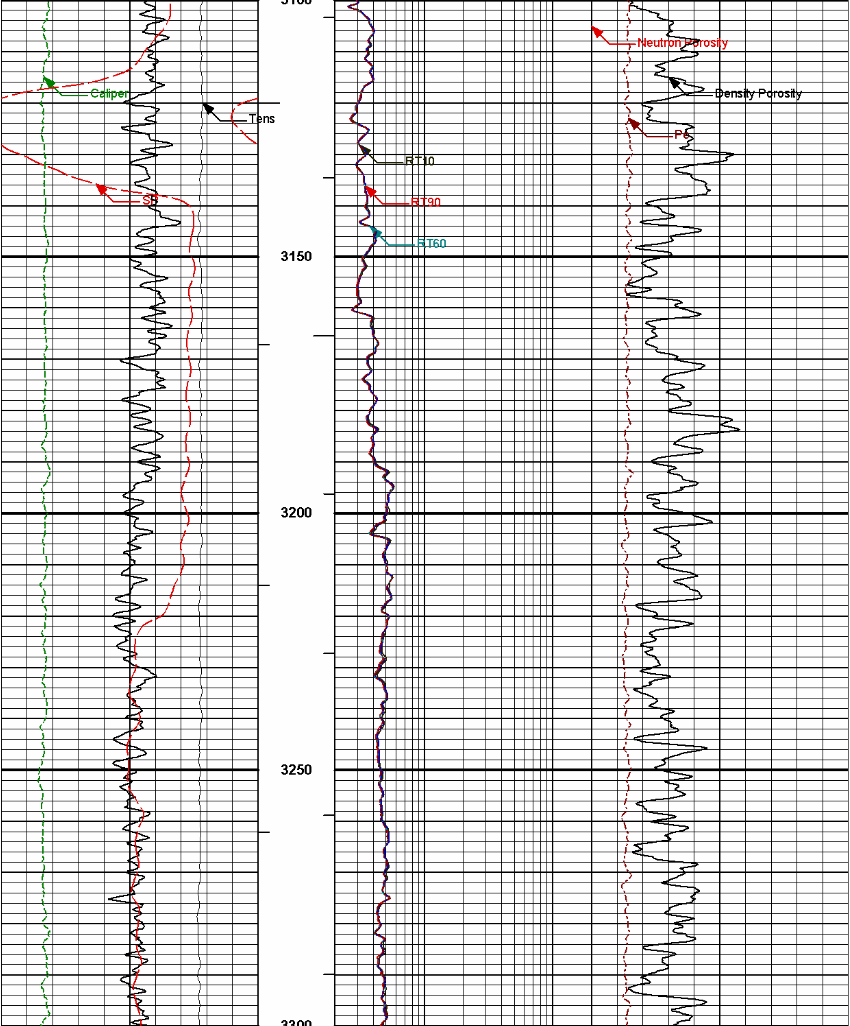


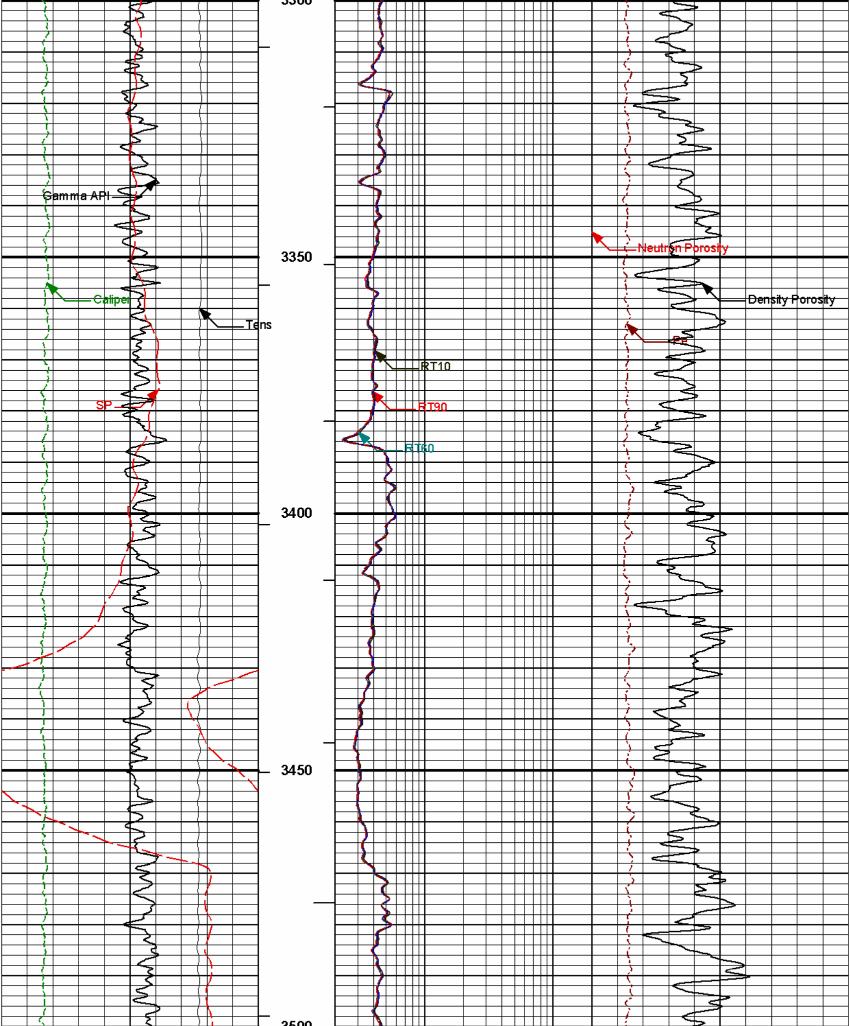


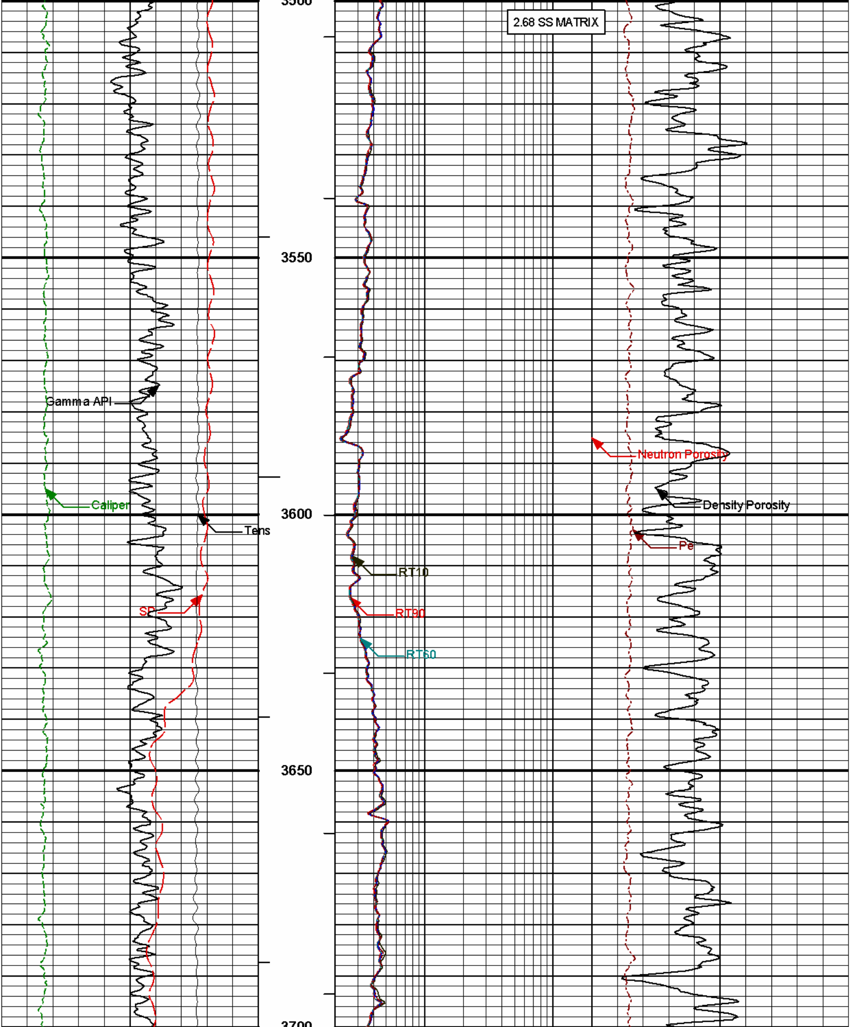


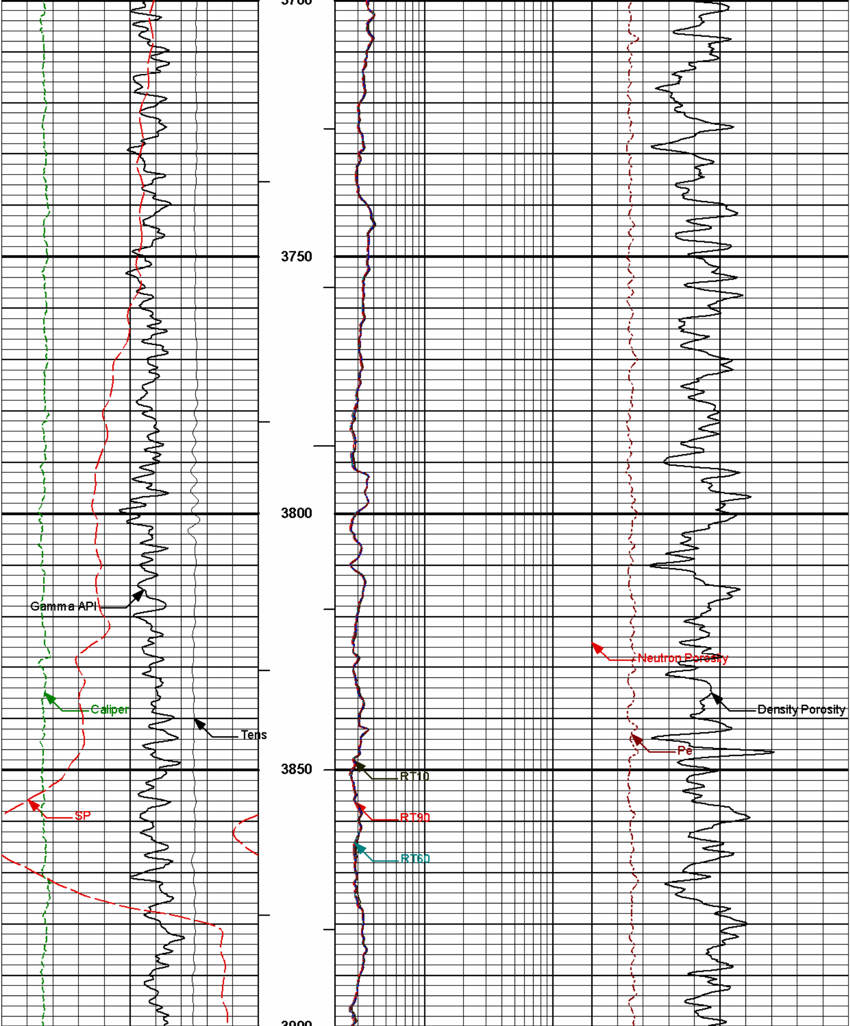


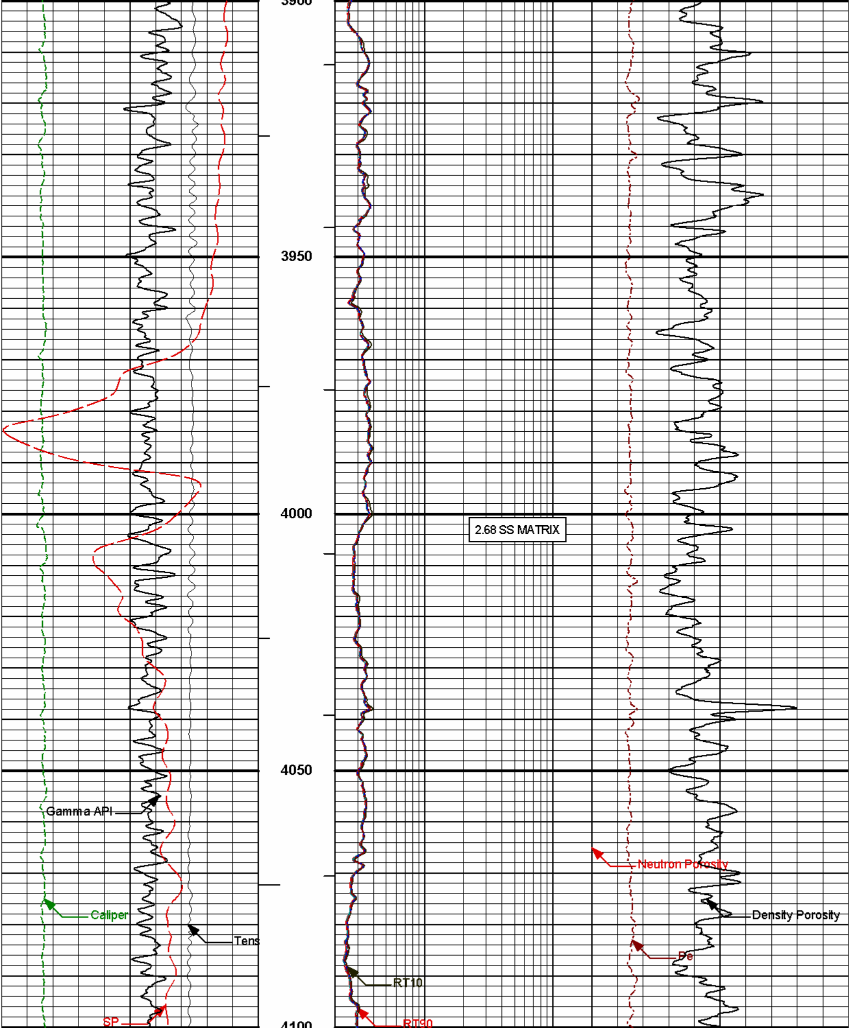


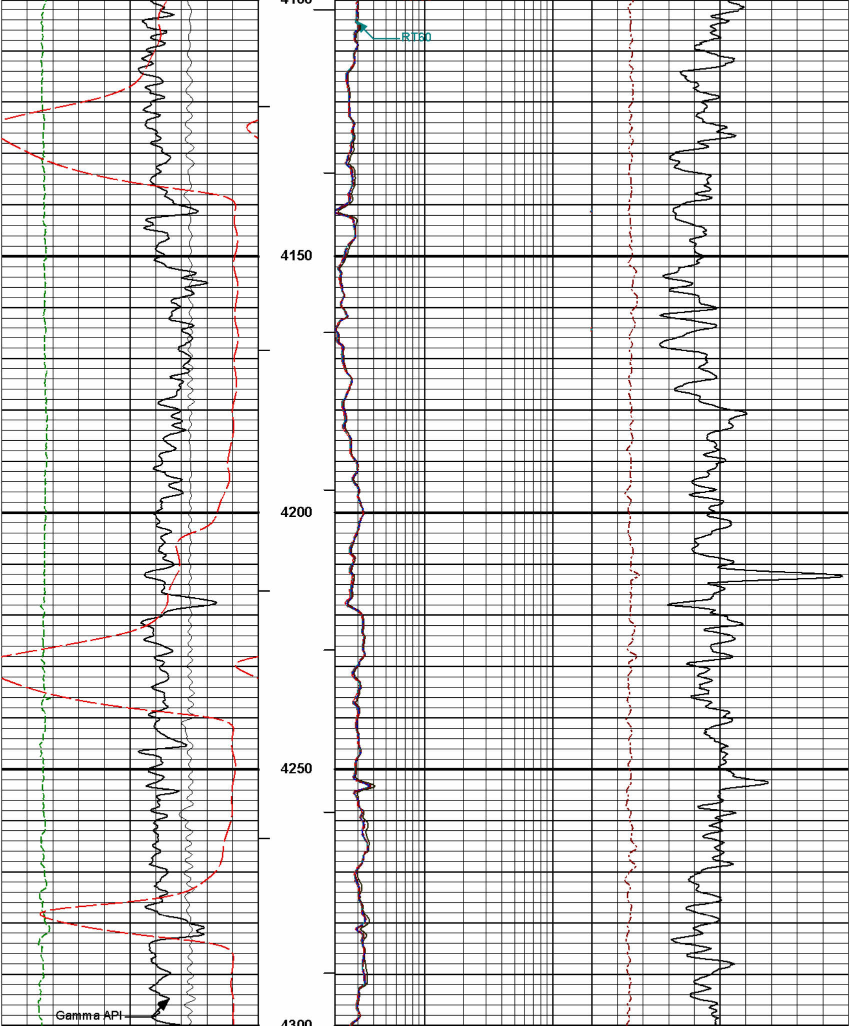


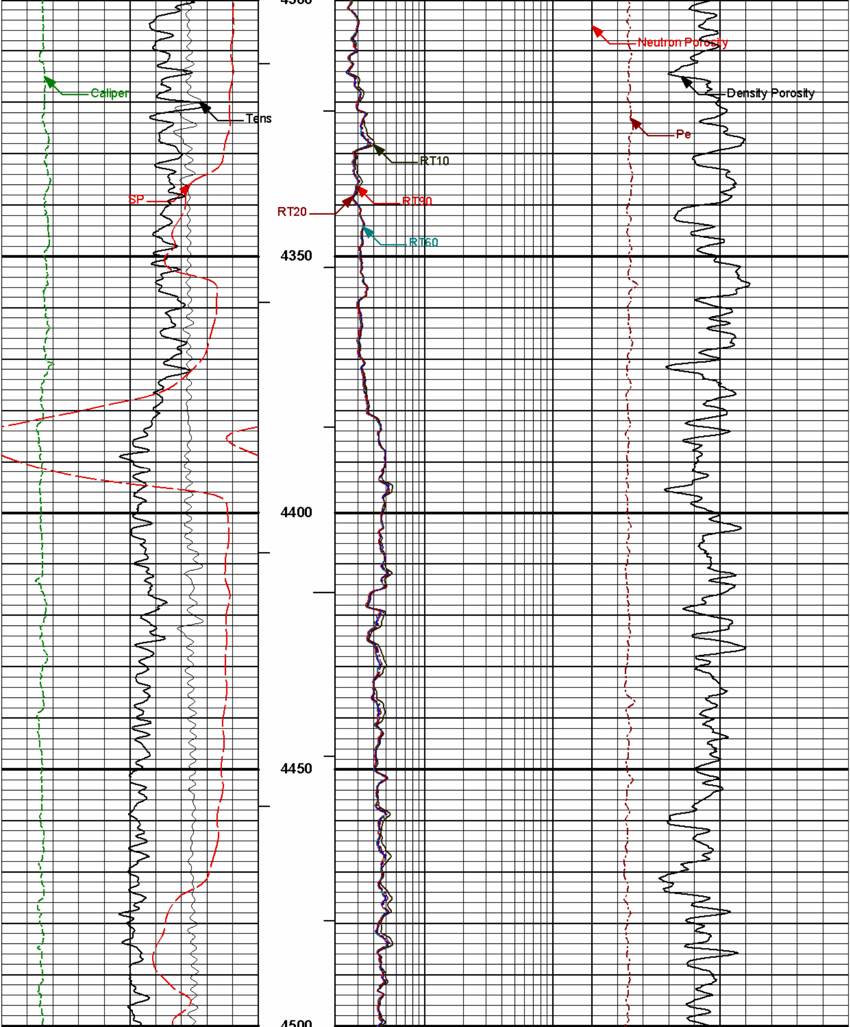


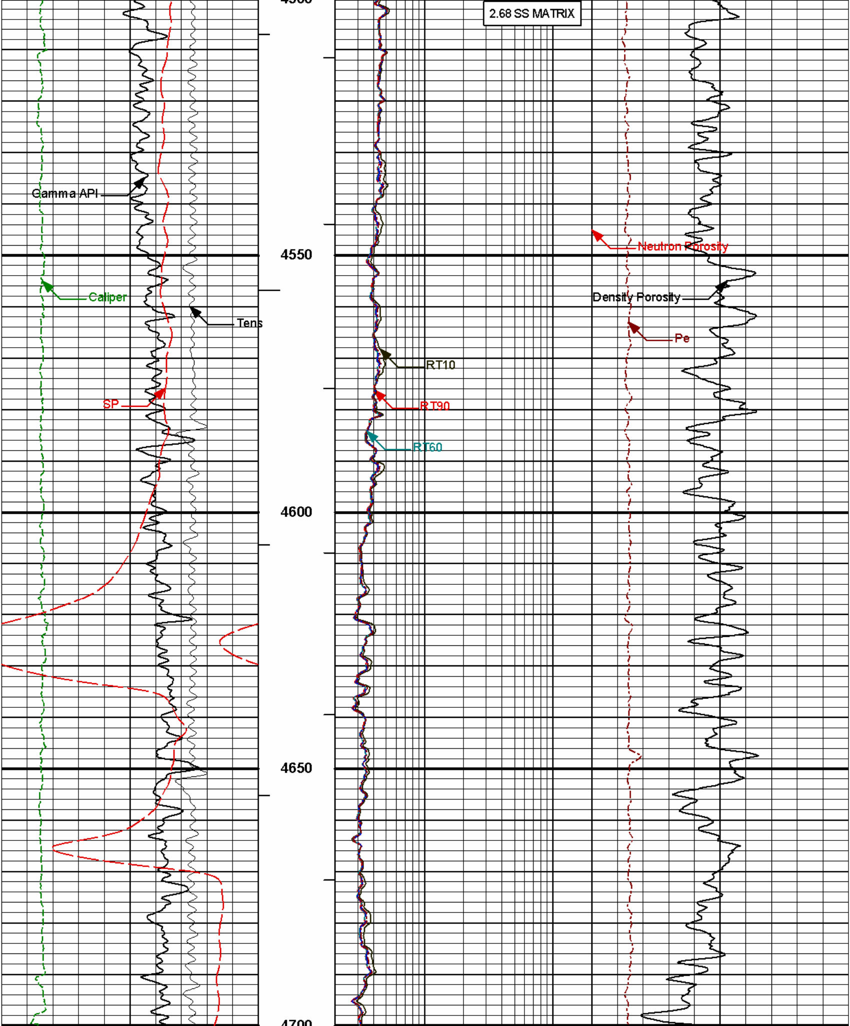


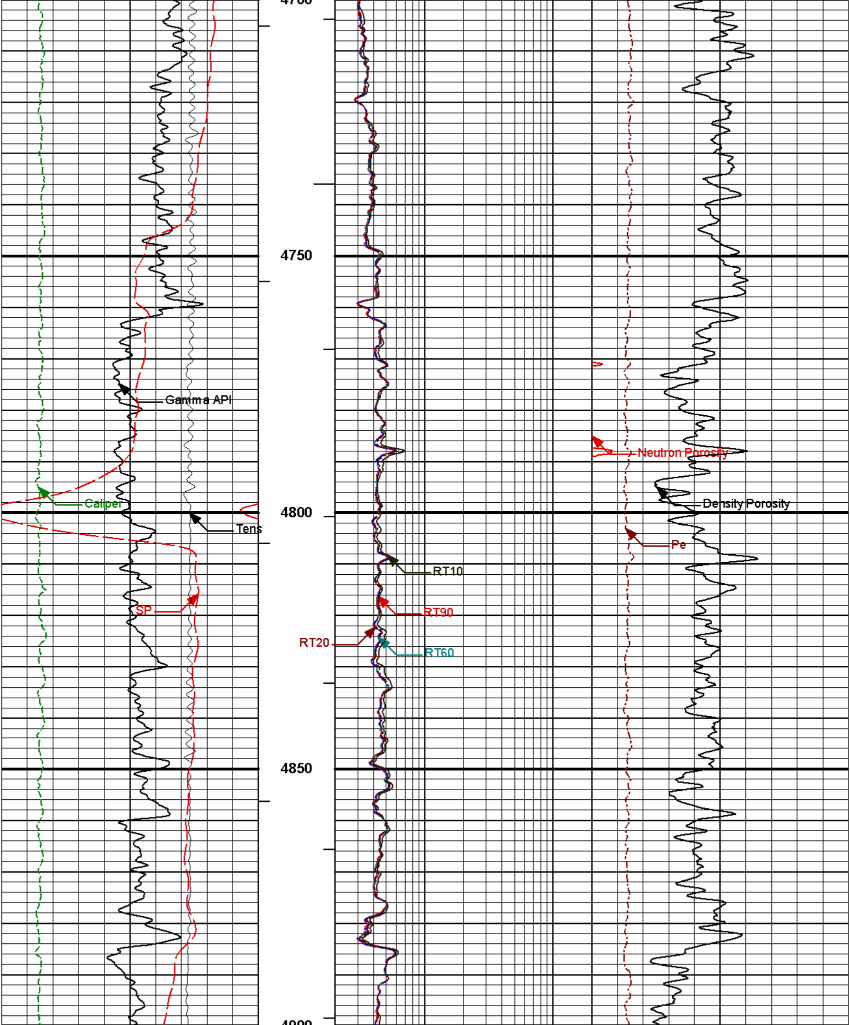


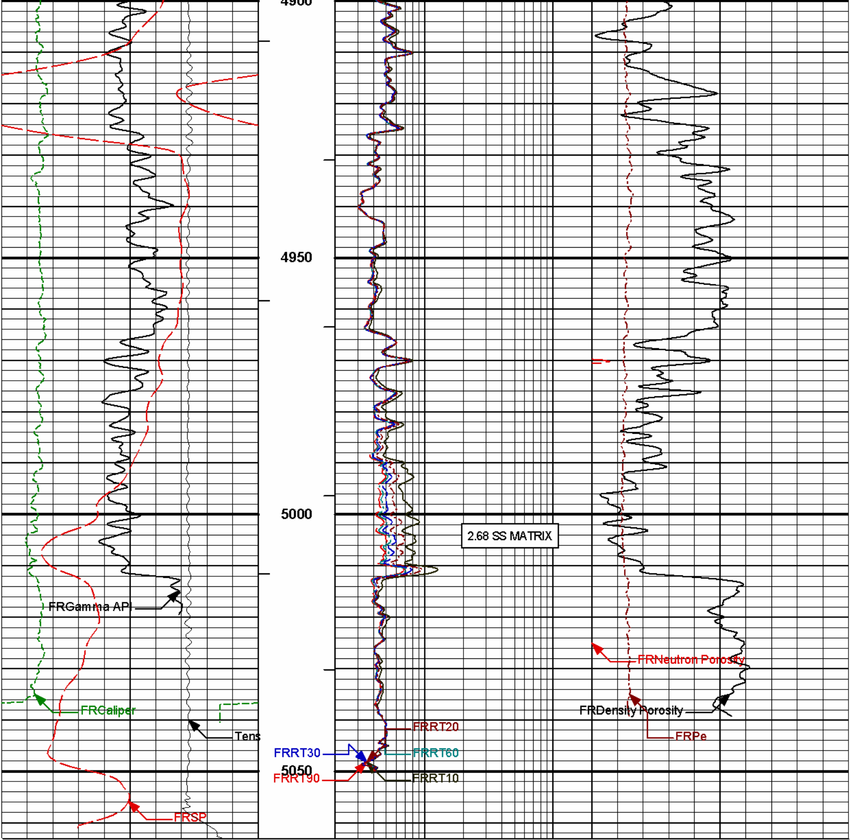












50 SP 150 millivolts	1 : 240	2 RT90 200 Ohm-m	0 Pe 10
0 Gamma API 200 api	AHVT	2 RT60 200 Ohm-m	20 Density Porosity 0 percent
6 Caliper 16 inches	BHVT	2 RT30 200 Ohm-m	20 Neutron Porosity 0 percent
10K Tens 0 pounds		2 RT20 200 Ohm-m	
		2 RT10 200 Ohm-m	

HALLIBURTON

Plot Time: 13-Jan-11 08:25:02
Plot Range: 1105 ft to 5063.17 ft
Data: {ActiveWell}\Well Based\DAQ-0001-003\*
Plot File: \\COMP\MAIN

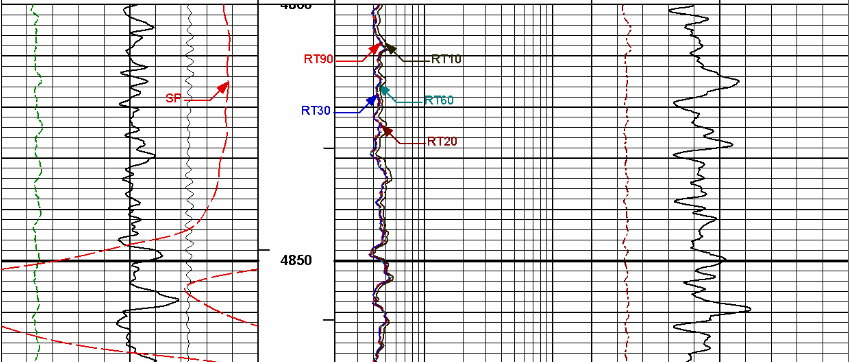
MAIN PASS 5" = 100'

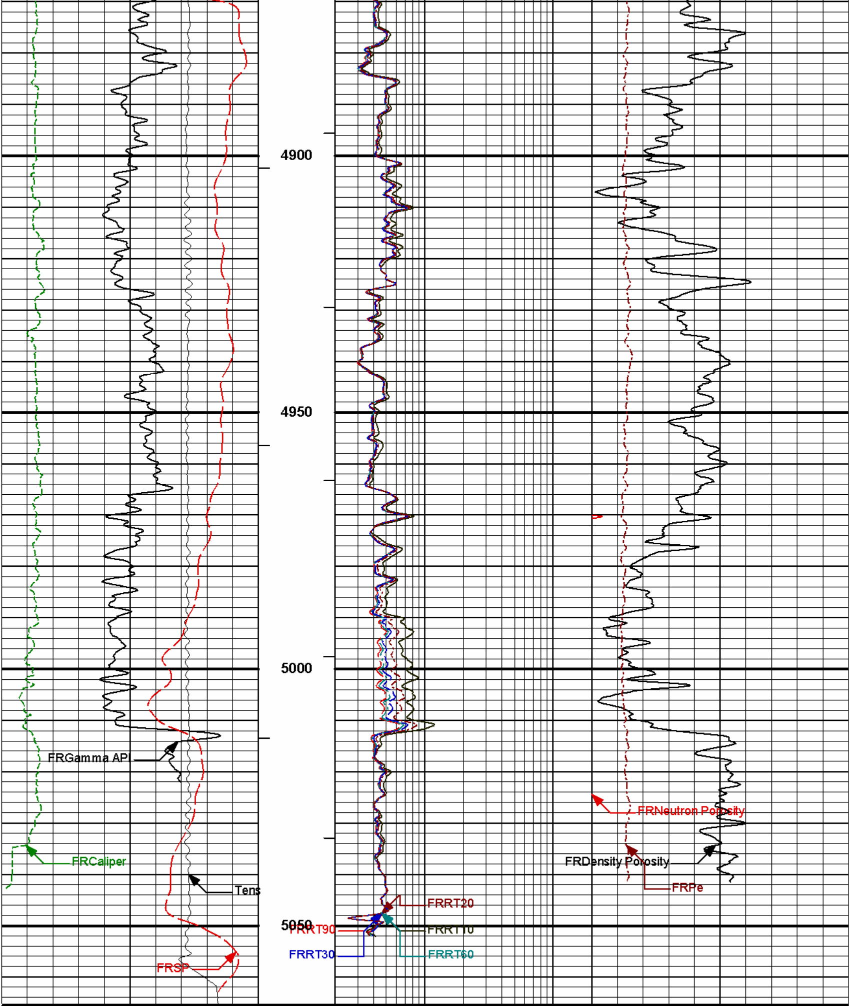
HALLIBURTON

Plot Time: 13-Jan-11 08:25:02
Plot Range: 4800 ft to 5065.42 ft
Data: {ActiveWell}\Well Based\REPEAT\*
Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'

Track 1	Depth Track	Track 2	Track 5	Track 3
		2 **RT10** 200 Ohm-m		
10K **Tens** 0 pounds		2 **RT20** 200 Ohm-m		
6 **Caliper** 16 inches	**BHVT**	2 **RT30** 200 Ohm-m	20 **Neutron Porosity** 0 percent	
0 **Gamma API** 200 api	**AHVT**	2 **RT60** 200 Ohm-m	20 **Density Porosity** 0 percent	
50 **SP** 150 millivolts	**1 : 240**	2 **RT90** 200 Ohm-m	0 **Pe** 10	





50 **SP** 150 **millivolts**	1 : 240	2 **RT90** 200 Ohm-m	0 **Pe** 10
0 **Gamma API** 200 api	AHVT	2 **RT60** 200 Ohm-m	20 **Density Porosity** 0 percent
6 **Caliper** 16 inches	BHVT	2 **RT30** 200 Ohm-m	20 **Neutron Porosity** 0 percent
10K **Tens** 0 **pounds**		2 **RT20** 200 Ohm-m	
		2 **RT10** 200 Ohm-m	

HALLIBURTON

Plot Time: 13-Jan-11 08:25:06
Plot Range: 4800 ft to 5065.42 ft
Data: {ActiveWell}\Well Based\REPEAT\*
Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: **GTET - 11294346**
Engineer: **C. BLUE**
Software Version: **WL INSITE R3.0.7 (Build 3)**
Reference Calibration Date: **24-Nov-10 08:49:15**
Calibration Date: **29-Dec-10 00:34:37**
Calibration Version: **1**

Calibrator Source S/N: KW-290
Calibrator API Reference:230.00 api
Equivalent Calibrator API Reference:234.0 api

Measurement	Measured	Calibrated	Units
Background	91.4	90.4	api
Background + Calibrator	328.0	324.4	api
Calibrator	233.0	234.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: **GTET - 11294346**
Engineer: **C. GULLETT**
Software Version: **WL INSITE R3.2.3 (Build 5)**
Reference Calibration Date: **29-Dec-10 00:34:37**
Calibration Date: **11-Jan-11 10:07:58**
Calibration Version: **1**

Calibrator Source S/N: KW-290
Calibrator API Reference:230.00 api
Equivalent Calibrator API Reference:234.0 api

Field Verification	Shop	Field	Units
Background	90.4	78.5	api
Background + Calibrator	324.4	310.3	api
Calibrator	234.0	231.8	api

Shop	Field	Difference	Tolerance
234.0	231.8	2.2	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 11301132**	**Reference Calibration Date:**	**10-Jan-11 15:16:19**
Engineer:	**F. LODER**	**Calibration Date:**	**10-Jan-11 15:31:08**
Software Version:	**WL INSITE R3.0.7 (Build 3)**	**Calibration Version:**	**1**

Logging Source S/N: DSN-434

Tank Serial Number: 11068236

Reference value assigned to Tank: 53.720

Snow Block S/N: BRIGHTON

Calibration Tank Water Temperature: 45 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.002	0.999	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2233	0.2223	0.0009	+/- 0.0020
Calibrated Ratio:	10.14	10.11	0.032	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0772	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 - 11301132**	**Reference Calibration Date:**	**10-Jan-11 15:31:08**
Engineer:	**C. GULLETT**	**Calibration Date:**	**11-Jan-11 10:33:57**
Software Version:	**WL INSITE R3.2.3 (Build 5)**	**Calibration Version:**	**1**

Logging Source S/N: DSN-434

Snow Block S/N: BRIGHTON

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0772	0.0630	-0.0142	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	**SDLT - I440M319**	**Reference Calibration Date:**	**13-Sep-10 14:53:06**
Engineer:	**R. TWEETEN**	**Calibration Date:**	**01-Dec-10 15:28:39**
Software Version:	**WL INSITE R3.0.7 (Build 3)**	**Calibration Version:**	**1**

Logging Source S/N: 2770GW

Aluminum Block S/N: BRIGHTON_AL	Density: 2.600g/cc	Pe: 3.100
Magnesium Block S/N: BRIGHTON_MG	Density: 1.680g/cc	Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0228	1.0168	0.90 - 1.10
Near Dens Gain	1.0054	1.0123	0.90 - 1.10
Near Peak Gain	0.9890	1.0059	0.90 - 1.10
Near Lith Gain	0.9667	0.9656	0.90 - 1.10
Far Bar Gain	1.0164	1.0184	0.90 - 1.10
Far Dens Gain	1.0037	1.0035	0.90 - 1.10
Far Peak Gain	0.9932	0.9966	0.90 - 1.10
Far Lith Gain	0.9666	0.9678	0.90 - 1.10
Near Bar Offset	0.0526	0.0989	NONE
Near Dens Offset	0.1765	0.1061	NONE
Near Peak Offset	0.3257	0.1730	NONE
Near Lith Offset	0.4867	0.4860	NONE
Far Bar Offset	0.0570	0.0498	NONE
Far Dens Offset	0.1415	0.1482	NONE
Far Peak Offset	0.2093	0.1844	NONE
Far Lith Offset	0.3804	0.3731	NONE
Near Bar Background	867.90	863.44	700 - 1450
Near Dens Background	285.14	283.52	230 - 480
Near Peak Background	120.49	121.68	100 - 210
Near Lith Background	152.52	151.48	125 - 260
Far Bar Background	548.03	547.22	450 - 900
Far Dens Background	211.00	209.85	175 - 345
Far Peak Background	83.06	82.07	70 - 140
Far Lith Background	86.82	86.59	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.694	1.680	-0.014	+/- 0.015
Pe	2.569	2.589	0.020	+/- 0.150
ALUMINUM				
Density (g/cc)	2.610	2.600	-0.010	+/- 0.01500
Pe	3.069	3.094	0.025	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0010	+/- 0.0110	-0.0012	+/- 0.0140
Magnesium Block	0.0006	+/- 0.0110	-0.0018	+/- 0.0140
Aluminum Block	-0.0013	+/- 0.0110	-0.0002	+/- 0.0140
Resolution	9.41	6.00 - 11.50	9.61	6.00 - 11.50

Internal Verifier(B+D+P+L)	1420	1200 - 2700	926	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 - I440M319**

Engineer: **C. GULLETT**

Software Version: **WL INSITE R3.2.3 (Build 5)**

Reference Calibration Date: **01-Dec-10 15:28:39**

Calibration Date: **11-Jan-11 10:59:04**

Calibration Version: **1**

Pad Temperature: 73.4 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1420.116	1409.702	-10.414	15.212
Far (B+D+P+L) cps	925.731	916.790	-8.941	16.474
Near Resolution	9.41	9.85	0.440	0.50
Far Resolution	9.61	10.15	0.540	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: **SDLT - I440M319**

Engineer: **C. BLUE**

Software Version: **WL INSITE R3.0.7 (Build 3)**

Reference Calibration Date: **08-Dec-10 12:59:55**

Calibration Date: **08-Dec-10 13:06:55**

Calibration Version: **1**

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4808.20	-4814.18	-7000.00 - -1000.00
Pad Gain	0.0003775	0.0003778	0.000200 - 0.000600
Arm Offset	-3760.37	-3706.58	-5000.00 - 3000.00
Arm Gain	0.0005346	0.0005253	0.000300 - 0.000700
Arm Power	-0.000003680	-0.000003004	-0.000010 - 0.000010

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)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.27	8.25	-0.02	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 0.20

PASS/FAIL SUMMARY

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

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name:	**SDLT - I440M319**	**Reference Calibration Date:**	**08-Dec-10 13:06:55**
Engineer:	**C. GULLETT**	**Calibration Date:**	**11-Jan-11 10:23:37**
Software Version:	**WL INSITE R3.2.3 (Build 5)**	**Calibration Version:**	**1**

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.66	-0.09	+/- 0.10
Ring Diameter	8.25	8.14	-0.11	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	**ACRt - E6758-S4352**	**Reference Calibration Date:**	**29-Nov-10 08:14:39**
Engineer:	**C. BLUE**	**Calibration Date:**	**29-Nov-10 08:30:56**
Software Version:	**WL INSITE R3.0.4 (Build 6)**	**Calibration Version:**	**1**

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	0.9955	1.05	0.95	0.9919	1.05	0.95	0.9866	1.05
A2 (50")	0.95	1.0015	1.05	0.95	1.0000	1.05	0.95	0.9966	1.05
A3 (29")	0.95	0.9954	1.05	0.95	0.9935	1.05	0.95	0.9892	1.05
A4 (17")	0.95	1.0112	1.05	0.95	1.0068	1.05	0.95	1.0037	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9947	1.05	0.95	0.9909	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9814	1.05	0.95	0.9769	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.003	2	-6	-3.791	-2	-8	-4.828	-2
A2 (50")	-7	-2.103	-1	-6	-3.786	-2	-7	-4.432	-2
A3 (29")	-27	-13.034	-9	-9	-3.764	-3	-7	-3.071	-1
A4 (17")	-180	-97.742	-60	-45	-31.894	-15	-39	-25.546	-13
A5 (10")	N/A	N/A	N/A	-150	-89.962	-50	-80	-44.028	-10
A6 (6")	N/A	N/A	N/A	175	295.171	525	90	151.612	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8294	1.3
36K	1.0	1.8894	2.0
72K	1.0	1.0712	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.009	1.05

CALIBRATION SUMMARY

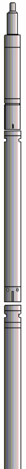
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11294346						
Gamma Ray Calibrator	234.0	231.8	-----------	2.2	+/- 9.00	api
DSNT-11301132						
Snow-Block Porosity	0.0772	0.0630	-----------	0.0142	+/- 0.0150	decp
SDLT-I440M319						
Near(B+D+P+L)	1420.116	1409.702	-----------	10.414	+/-15.212	cps
Far(B+D+P+L)	925.731	916.790	-----------	8.941	+/-16.474	cps
Pad Extension	3.75	3.66	-----------	0.09	+/-0.10	in
Ring Diameter	8.25	8.14	-----------	0.110	+/-0.15	in
ACRt-E6758-S4352						
Mud Cell	1.009	-----------	-----------	0.000	-----------	ohm-m

Data: JESSER_4_2S\0001 TRIPLE\IDLE

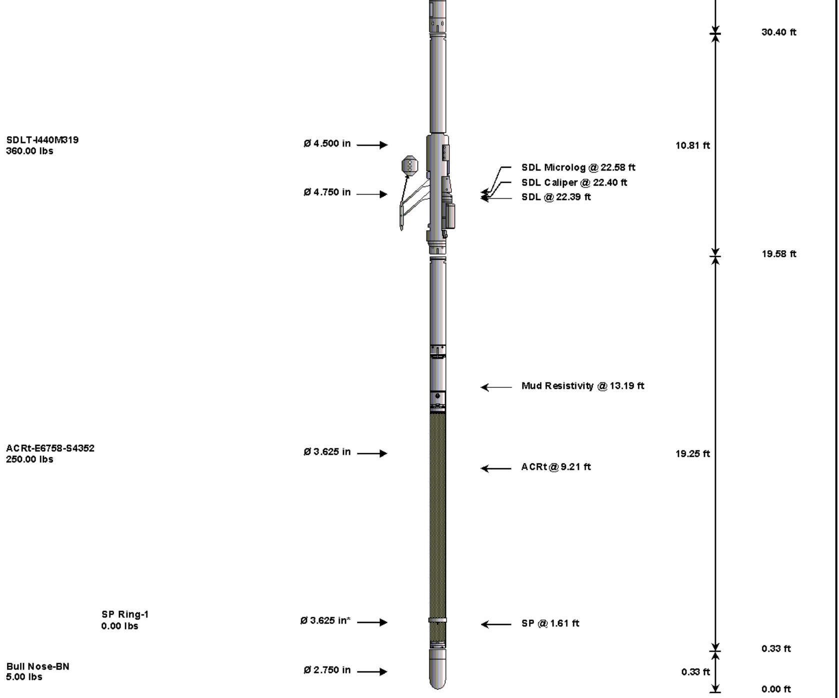
Date: 13-Jan-11 05:44:06

HALLIBURTON

TOOL STRING DIAGRAM REPORT



Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						54.85 ft
RWCH-A094 135.00 lbs		Ø 3.625 in		Load Cell @ 51.17 ft BH Temperature @ 50.60 ft	6.25 ft	
						48.60 ft
GTET-11294346 165.00 lbs		Ø 3.625 in		GammaRay @ 42.54 ft	8.52 ft	
						40.08 ft
DSNT-11301132 174.00 lbs		Ø 3.625 in		DSN Far @ 33.15 ft DSN Near @ 32.40 ft	9.69 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	A094	135.00	6.25	48.60	300.00
GTET	Gamma Telemetry Tool	11294346	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	11301132	174.00	9.69	30.40	60.00
SDLT	Spectral Density Tool	I440M319	360.00	10.81	19.58	60.00
ACRt	Array Compensated True Resistivity	E6758-S4352	250.00	19.25	0.33	300.00
SP	SP Ring	1	0.00	0.25 *	1.61	300.00
BLNS	Bull Nose	BN	5.00	0.33	0.00	300.00
Total			**1,089.00**	**54.85**		

* Not included in Total Length and Length Accumulation.

Data: JESSER_4_2S\0001 TRIPLE\IDLE

Date: 13-Jan-11 05:26:19

COMPANY	**KEER-MCGEE OIL & GAS ONSHORE LP**		
WELL	**JESSER 4-2S**		
FIELD	**WATTENBERG**		
COUNTY	**WELD**	STATE	**CO**

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SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY