SUPERIOR WELL SERVICES

SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY SINGLE INDUCTION LOG

Company	El Paso E&P Company, L.P.
Well	VPR"C"-124
Field	Purgatorie River
County	Las Animas
State	Colorado

Company El Paso E&P Company, L.P.
Well VPR"C"-124
Field Purgatorie River
County Las Animas State Colorado

Location: API # : 05-071-09010-00

3653' FNL & 222' FWL

SEC 13 TWP 35S RGE 67W

Other Services

Permanent Datum	Ground Level	Elevation	8062'
Log Measured From	Ground Level		
Drilling Measured From	Ground Level		

Elevation
K.B. -------
D.F. -------
G.L. 8062'

Date	12-18-06		
Run Number	One		
Depth Driller	2525'		
Depth Logger	2519'		
Bottom Logged Interval	2517'		
Top Log Interval	Surface Casing		
Casing Driller	8 5/8" @ 323'		
Casing Logger	323'		
Bit Size	7 7/8"		
Type Fluid in Hole	Water		
Density / Viscosity	/////		
pH / Fluid Loss	/////		
Source of Sample	/////		
Rm @ Meas. Temp	/////		
Rmf @ Meas. Temp	/////		
Rmc @ Meas. Temp	/////		
Source of Rmf / Rmc	/////		
Rm @ BHT	/////		
Time Circulation Stopped	5:00 P.M.		
Time Logger on Bottom	7:00 P.M.		
Maximum Recorded Temperature	111 DEG F		
Equipment Number	T0700		
Location	Trinidad, Co		
Recorded By	S. Allen		
Witnessed By	Mr. Carl Evenson		

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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.

Comments

Density Porosity Presented on Sandstone Matrix.

ABHV Calculated for 5 1/2" Casing.

Well Directions:
Lorencito Gate-Turn Right at "Y"-Drive to "T"-Turn Right-3rd Left to Location.

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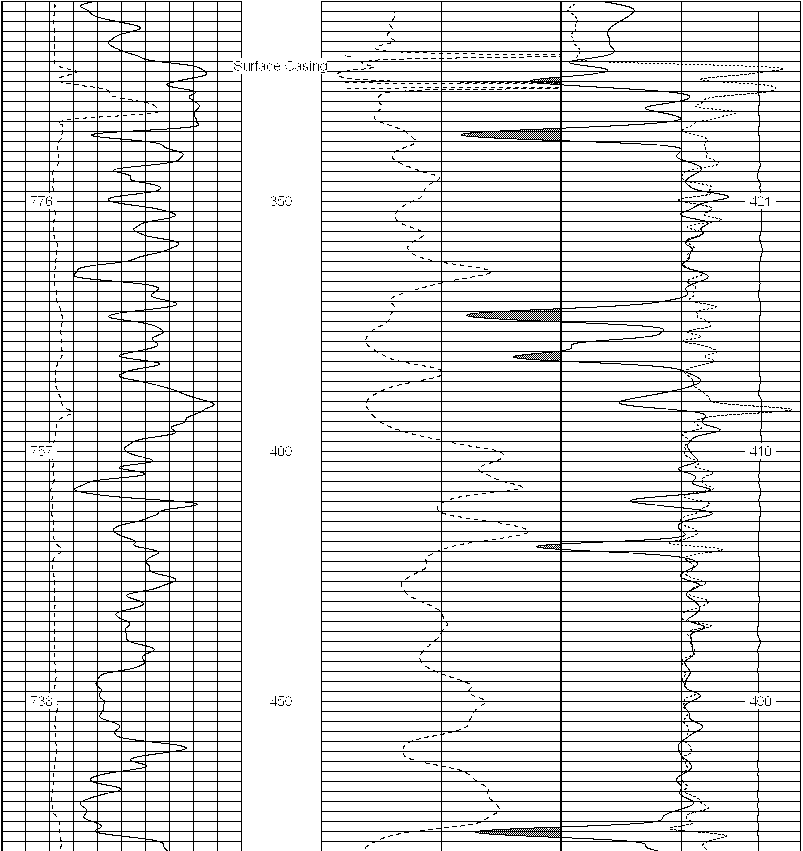
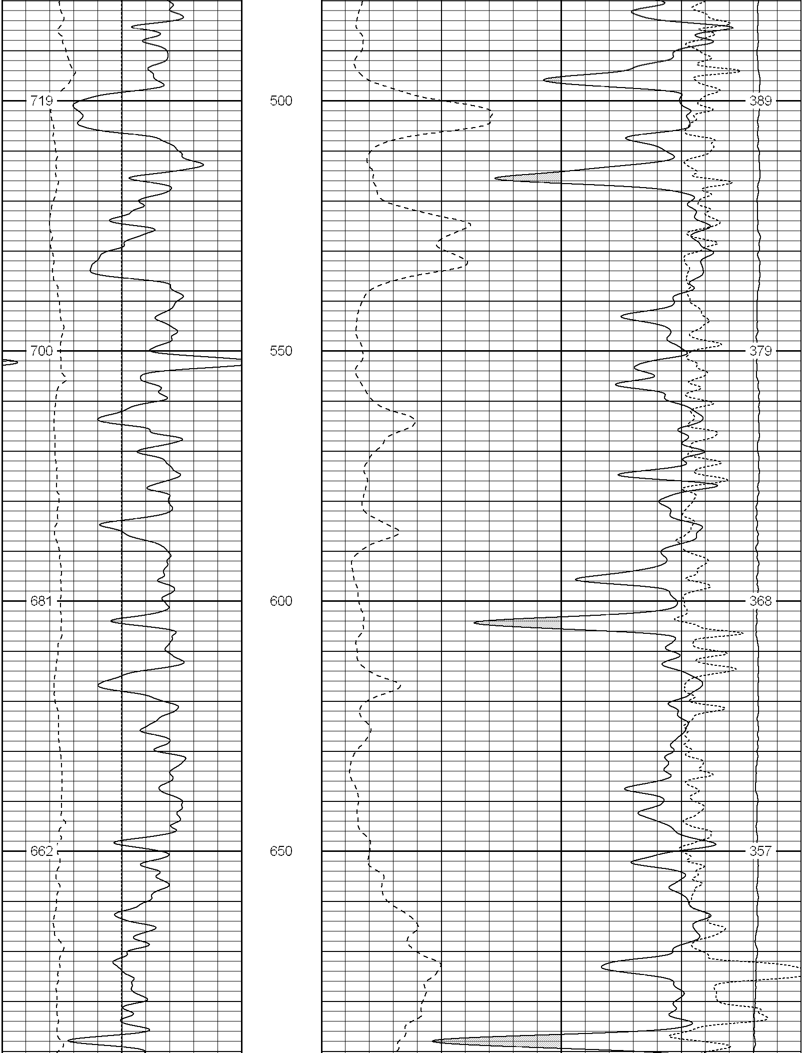
Main Pass

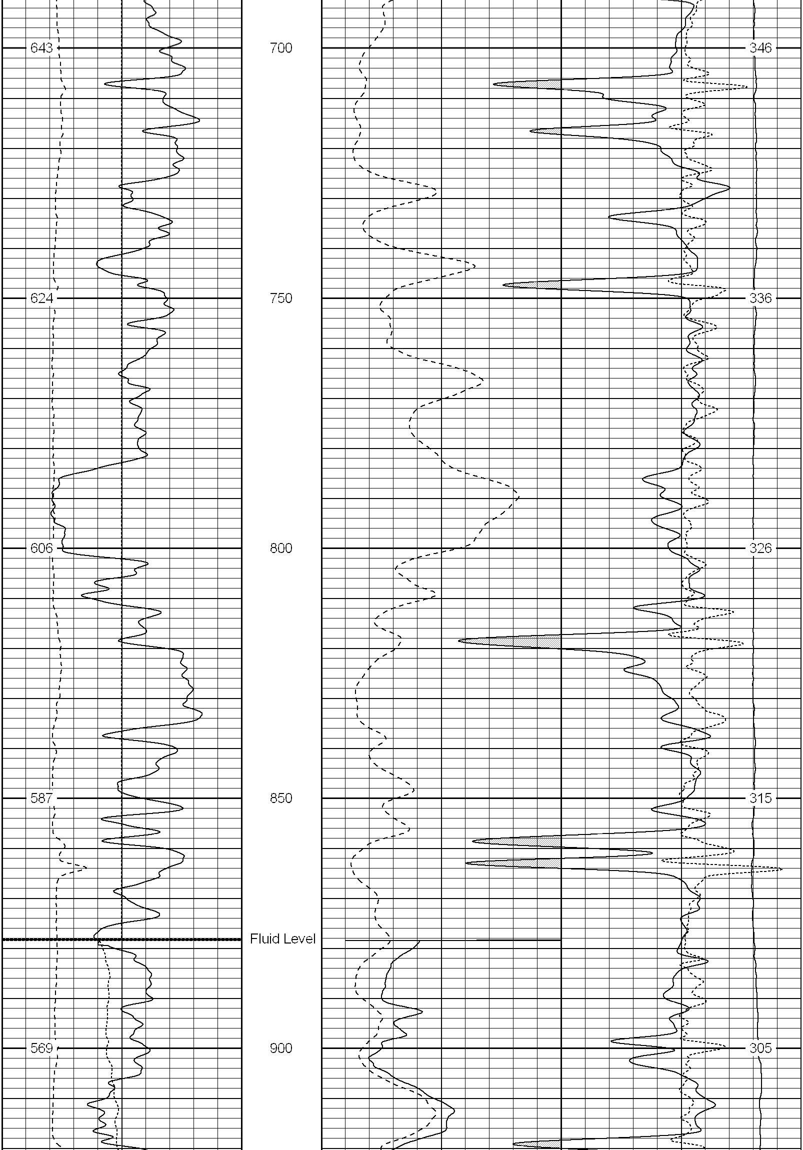
Database File:	elpasovprc124.db
Dataset Pathname:	pass2.1
Presentation Format:	combosil1
Dataset Creation:	Mon Dec 18 20:41:58 2006 by Calc Open-Cased 060407
Charted by:	Depth in Feet scaled 1:240

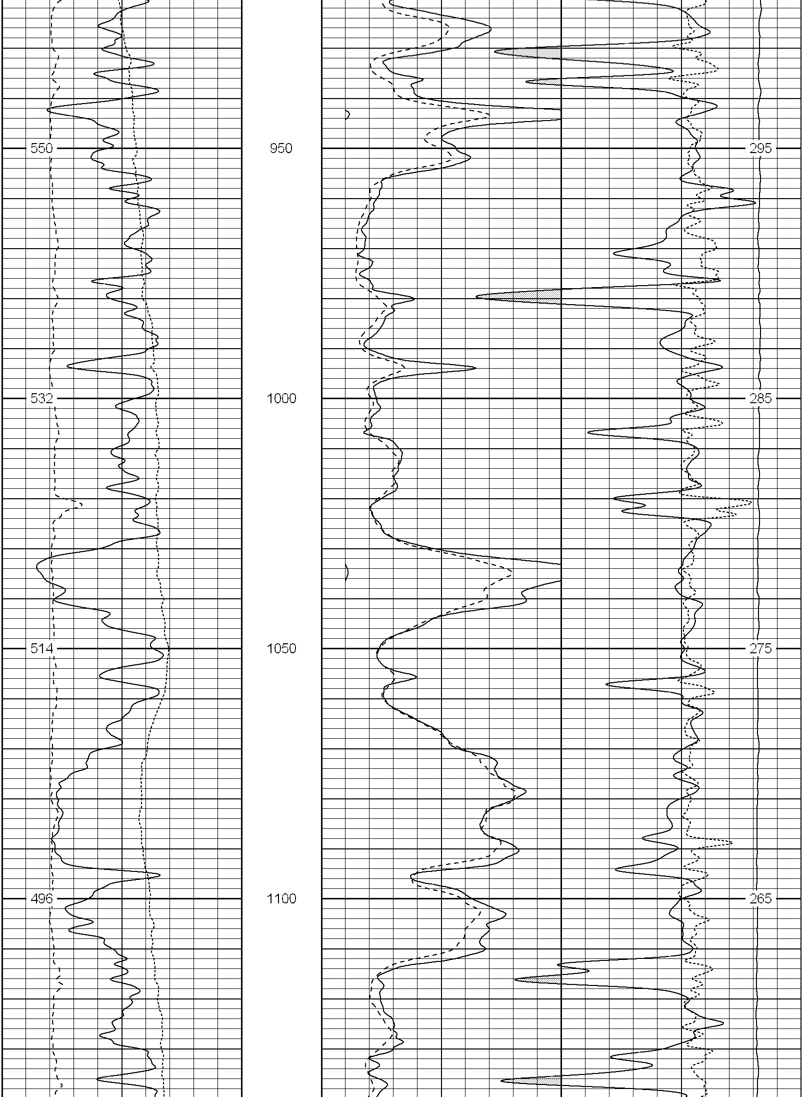
0 GR (GAPI) 200
6 DCAL (in) 16
-100 SP (mV) 100

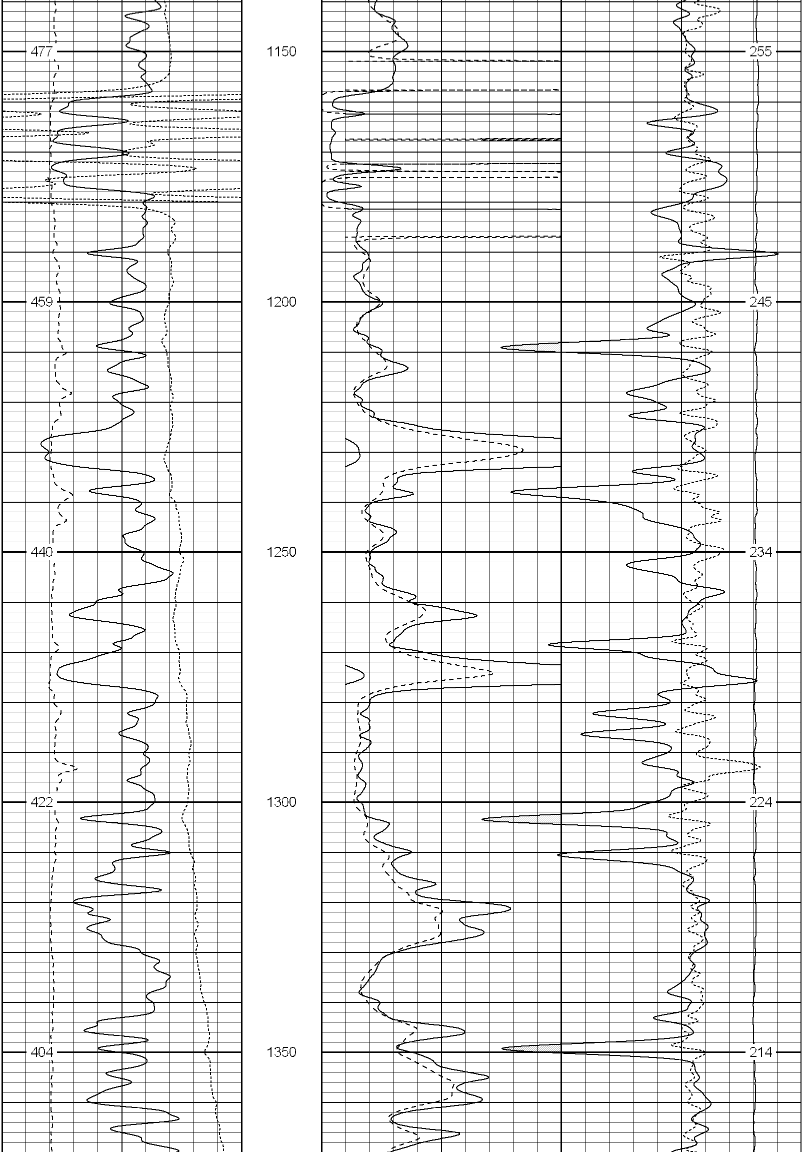
1 RHOB (g/cc) 3
0 DIR (Ohm-m) 50
0 SN (Ohm-m) 50
50 DIR (Ohm-m) 500
50 SN (Ohm-m) 500
-0.5 RHOC (g/cc) 0.5
5000 LTEN (lb) 0

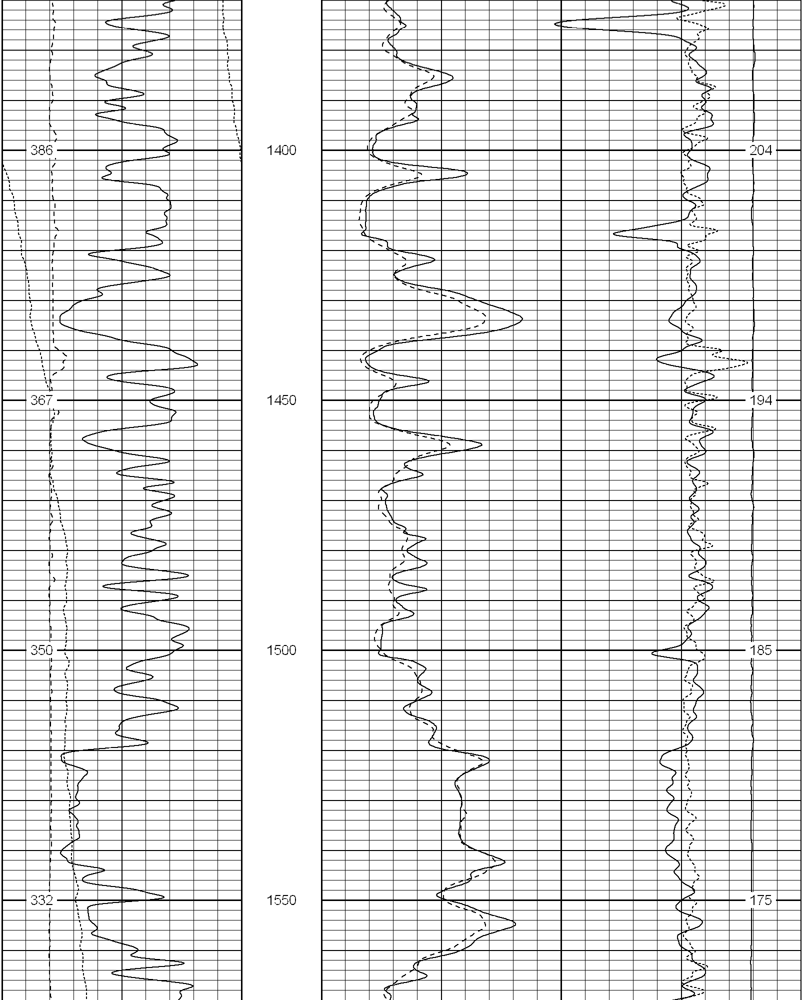


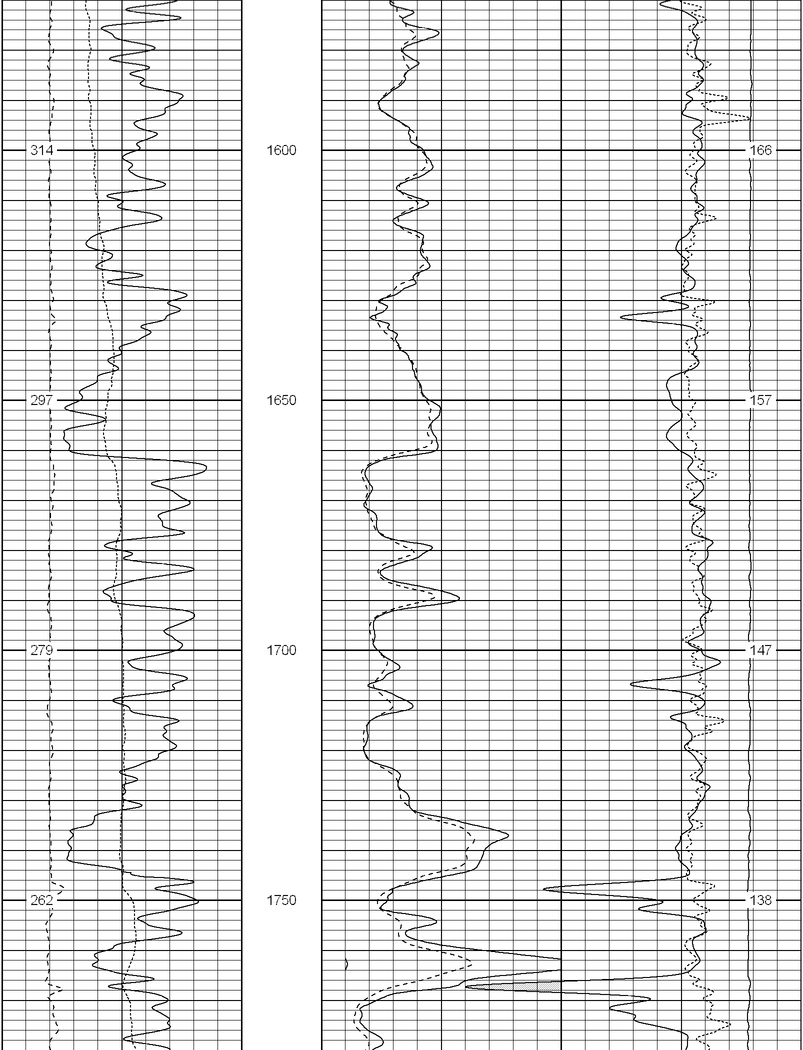


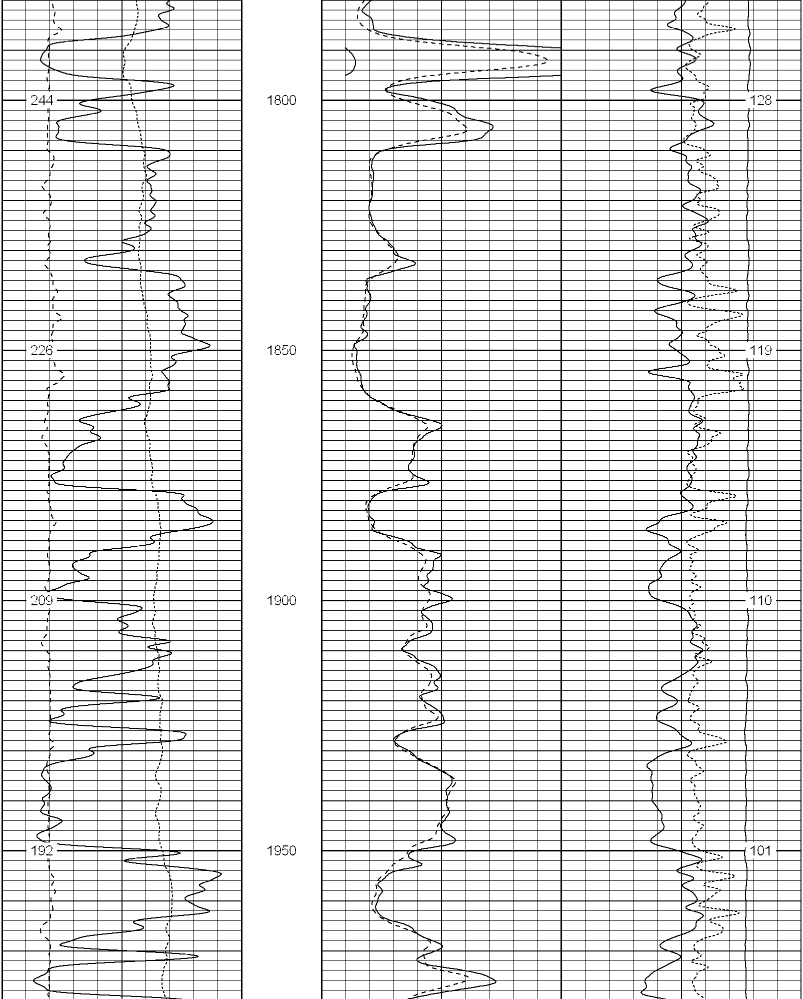


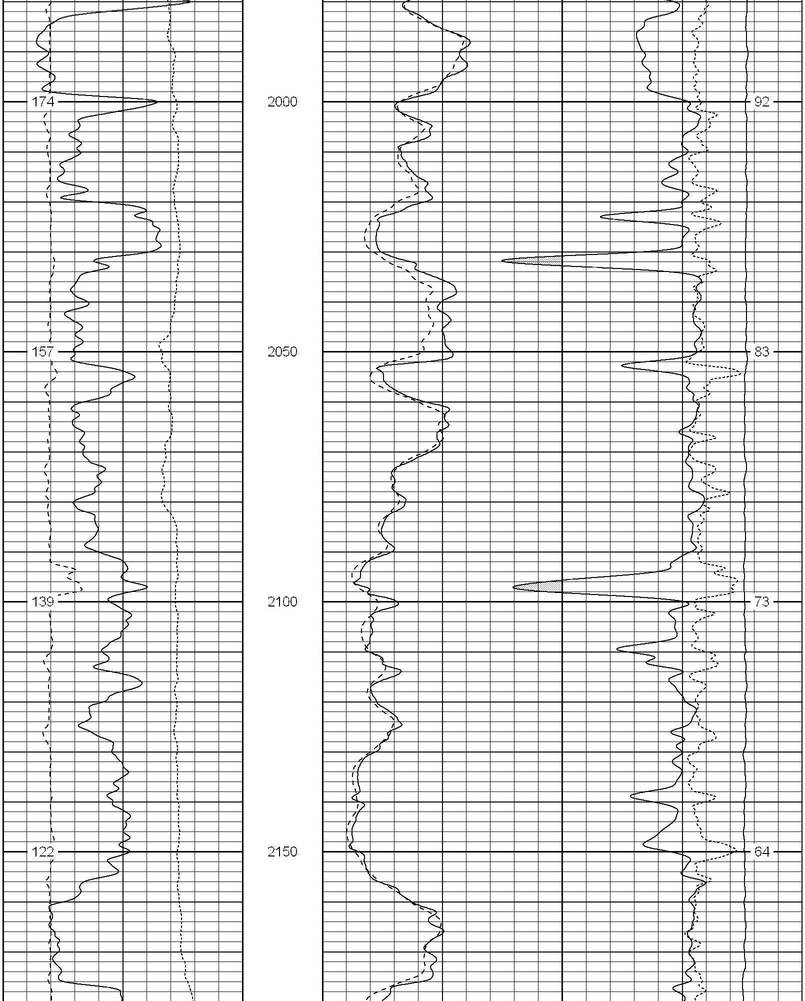


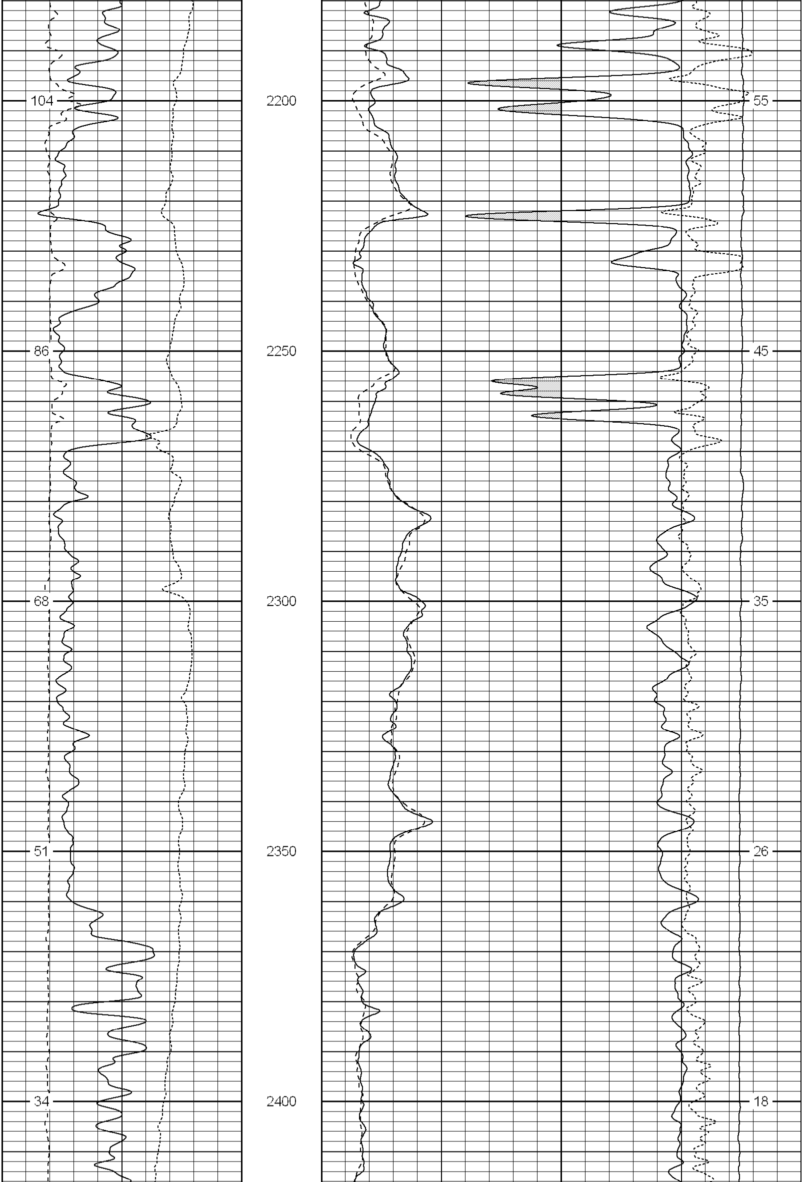


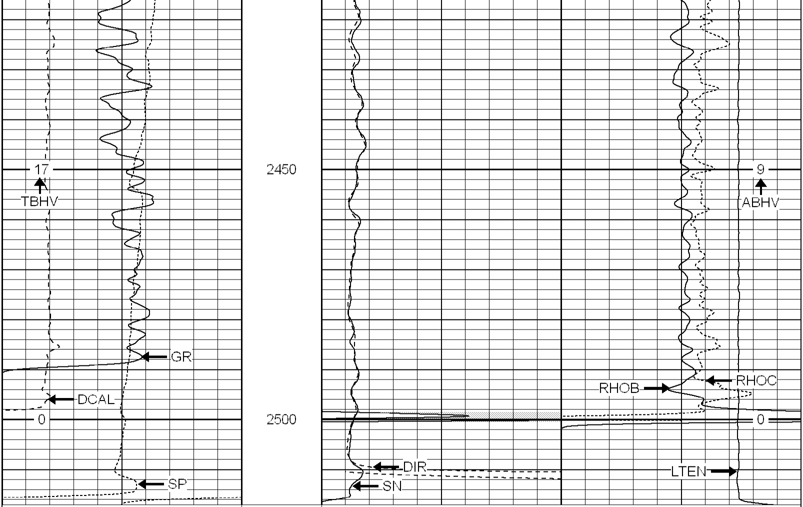












0	GR (GAPI)	200	1	RHOB (g/cc)				3
6	DCAL (in)	16	0	DIR (Ohm-m)	50	-0.5	RHOC (g/cc)	0.5
-100	SP (mV)	100	0	SN (Ohm-m)	50	5000	LTEN (lb)	0
			50	DIR (Ohm-m)	500			
			50	SN (Ohm-m)	500			

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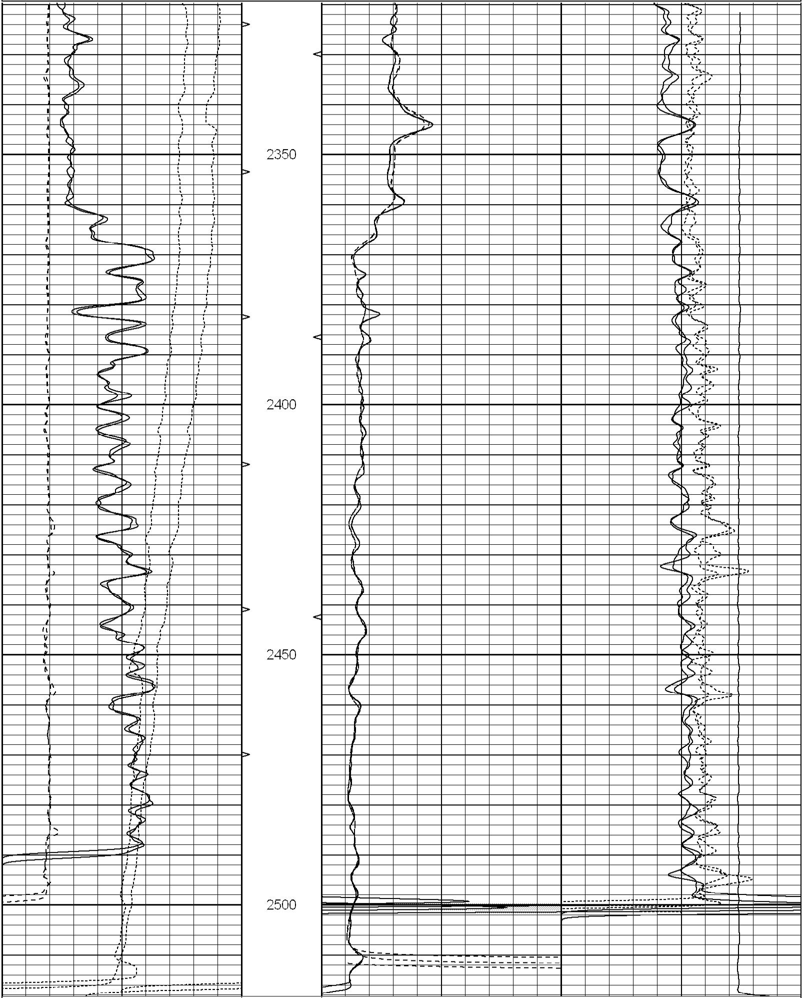
Repeat Section

Database File:	elpasovprc124.db
Dataset Pathname:	pass1.1
Presentation Format:	combosil
Dataset Creation:	Mon Dec 18 19:58:46 2006 by Calc Open-Cased 060407
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200	TBHV	1	RHOB (g/cc)				3
6	DCAL (in)	16	0 (ft3) 10	0	DIR (Ohm-m)	50	-0.5	RHOC (g/cc)	0.5
-100	SP (mV)	100	ABHV	0	SN (Ohm-m)	50	5000	LTEN (lb)	0
0	GR-repeat (GAPI)	200	10 (ft3) 0	1	RHOB-repeat (g/cc)				3
6	DCAL-repeat (in)	16		0	DIR-repeat (Ohm-m)	50	-0.5	RHOC-repeat (g/cc)	0.5
-100	SP-repeat (mV)	100		0	SN-repeat (Ohm-m)	50			
				50	DIR (Ohm-m)	500			
				50	SN (Ohm-m)	500			



0 GR (GAPI) 200	TBHV	1 RHOB (g/cc) 3	
6 DCAL (in) 16	0 (ft3) 10	0 DIR (Ohm-m) 50	-0.5 RHOC (g/cc) 0.5
-100 SP (mV) 100	ABHV	0 SN (Ohm-m) 50	5000 LTEN (lb) 0
0 GR-repeat (GAPI) 200	10 (ft3) 0	1 RHOB-repeat (g/cc) 3	
6 DCAL-repeat (in) 16		0 DIR-repeat (Ohm-m) 50	-0.5 RHOC-repeat (g/cc) 0.5
-100 SP-repeat (mV) 100		0 SN-repeat (Ohm-m) 50	
		50 DIR (Ohm-m) 500	
		50 SN (Ohm-m) 500	

Calibration Report

Database File: elpasovprc124.db
Dataset Pathname: pass2
Dataset Creation: Mon Dec 18 19:12:39 2006 by Log Open-Cased 060407

Induction Tool Calibration Report

Serial Number: 121
Tool Model: G
Downhole Cal Performed: Fri Dec 08 21:50:08 2006
Surface Cal Performed: Wed Dec 06 07:54:33 2006

Surface Calibration:	Air	Loop	
Conductivity Reference:	0.000	450.000	mmho
Conductivity Reading:	0.010	0.632	V
Internal Reference:	Zero	Cal	
Conductivity Reference:	0.000	500.000	mmho
Conductivity Reading:	0.010	0.632	V

Downhole Calibration:	Internal Zero	Internal Cal	
Conductivity Reference:	-0.163	449.470	mmho
Conductivity Reading:	-5.591	458.974	V
Short Normal Reference:	0.000	17.000	Ohm-m
Short Normal Reading:	0.003	0.196	V

Results:	Gain	Offset
Loop Conductivity:	723.526	-7.476
Downhole Correction:	0.968	5.248
Short Normal Resistivity:	68.000	-1.000

Temperature Calibration Report

Serial Number: 2099T
Tool Model: CDLP
Performed: Wed Dec 06 14:22:22 2006

	Reference	Reading
Low Reference:	55.00 degF	3.17 V
High Reference:	160.00 degF	5.35 V

Gain: 48.17
Offset: -97.68
Delta Spacing 1

Compensated Density Calibration Report

Serial-Model:	2099-NG
Source / Verifier:	csv-n20 / blocks
Master Calibration Performed:	Wed Dec 06 13:22:07 2006

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1019.37	442.53	cps
Aluminum	2.590	g/cc	226.79	305.89	cps

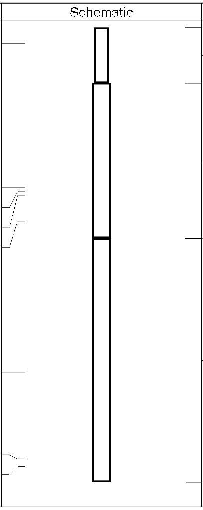
Spine Angle = 76.19

Density/Spine Ratio = 0.569

	Size		Reading	
Small Ring	8.00	in	2.01	V
Large Ring	14.00	in	3.11	V

Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Fri Dec 15 12:17:32 2006	
Calibrator Value:	200.0	GAPI
Background Reading:	54.0	cps
Calibrator Reading:	219.0	cps
Sensitivity:	0.2700	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	27.45		GR-P2000 (2000)	3.50	3.25	40.00
			CDL-NG (2099)	9.69	4.00	201.00
LSD	18.47					
DCAL	18.18					
SSD	17.93					
TEMP	16.33		TEMP-CDLP (2099T)	0.01	4.00	1.00
DIC	6.89		IEL-G (121)	15.25	4.00	178.00
SP	1.50					
SN	1.00					

Dataset:	elpasovprc124.db: field/well/run1/pass2
Total Length:	28.45 ft
Total Weight:	420.00 lb
O.D.	4.00 in