Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY MC MULLEN
FIELD WILDCAT
LOCATION
WELL #2 NUECES MINERALS
COMPANY CITIES SERVICE CO.

COMPANY CITIES SERVICE COMPANY

WELL #2-A NUECES MINERALS

FIELD WILDCAT

COUNTY MC MULLEN **STATE** TEXAS

LOCATION
1610'FSEL & 1610'FSWL B.S.&F.
SUR.#169, A-133

API SERIAL NO.	SEC.	TWP.	RANGE

Other Services:
DIL/SONIC,HDT

Permanent Datum: GROUND LEVEL ; Elev.: 325
Log Measured From K.B. , 23 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 348
D.F. 347
G.L. 325

Date	10-30-80	11-5-80		
Run No.	ONE	TWO		
Depth—Driller	15694	16810		
Depth—Logger	15691	16834		
Btm. Log Interval	15687	16830		
Top Log Interval	15434	15434		
Casing—Driller	7 @15434	7 @15434	@	@
Casing—Logger	15434	15434		
Bit Size	5 3/4	5 3/4		
Type Fluid in Hole	LIGNO.	LIGNO.		
Dens. | Visc.	15.2 | 44	16.2 | 52		
pH | Fluid Loss	10 | 4.4 ml	11 | 6.4 ml	ml	ml
Source of Sample	CIRC. PIT	PIT		
Rm @ Meas. Temp.	.371 @85 °F	3.0 @ 100F	@ °F	@ °F
Rmf @ Meas. Temp.	.387 @60 °F	2.5 @ 60 °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.2 @85 °F	4.1 @ 75 °F	@ °F	@ °F
Source: Rmf | Rmc	MEAS | CHART	MEAS | CHART		
Rm @ BHT	.083 @ 378 °F	0.77 @386 °F	@ °F	@ °F
TIME Circulation Stopped	1600(10-30)	0000 (11-5)		
TIME Logger on Bottom	0600(10-31)	1030 (11-5)		
Max. Rec. Temp.	378 °F	402 °F	°F	°F
Equip. | Location	8103 | PHARR	8099 | PHARR		
Recorded By	WHITAKER	HERBST		
Witnessed By	MR. BERG*	MR. TRUSS**		

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

RUN NO.	ONE	TWO		
Service Order No.	135860	156248		
Fluid Level	FULL	--		
Salinity, PPM CL.	2500	--		
Speed - F.P.M.	30	--		
EQUIPMENT DATA				
Dens. Panel	316	333		
Dens. Cart.	251	219		
Dens. Skid.	288	351		
Dens. Sonde	240	207		
Dens. Source	5498	5448		
Dens. Calibrator	183	661		
Neut. Panel	316	333		
Neut. Cart.	1602	665		
Neut. Source	304	1470		
Neut. Calibrator	2595	2193		
GR Cart.	1135	1050		
Memorizer Panel	CPU-286	--		
Tape Recorder (TTR)	MTU-1927	--		
Depth Encoder (DRE)	--	--		
Pressure Wheel (CPW)	--	--		
Centralizers: Enter Spring, Standoffs, In-line, or None — Type	--	--		
No.	--	--		
S. O. — Inches	--	--		
CALIBRATION DATA				
GR — BKG. CPS	62	--		
GR — Source CPS	221	--		
GR — Sens. - Cal	--	--		
GR — T. C. - Cal	--	--		
CNL — Short Spacing - Before Log	RATIO =	--		
CNL — Long Spacing - Before Log	2.188	--		
CNL — Short Spacing - After Log	RATIO =	--		
CNL — Long Spacing - After Log	2.162	--		
FDC — P1 — Before Log	320	--		
FDC — P2 — Before Log	507	--		
FDC — P1 — After Log	329	--		
FDC — P2 — After Log	497	--		

Type Log	Depth		

REMARKS:
ON RUN ONE: * MR. WILLIAMS.
LOG WAS TAPED. $F = 1/\phi_D^2$. POROSI-
TY DENSITY VALUES INCORRECT
ACCORDING TO RUN TWO.

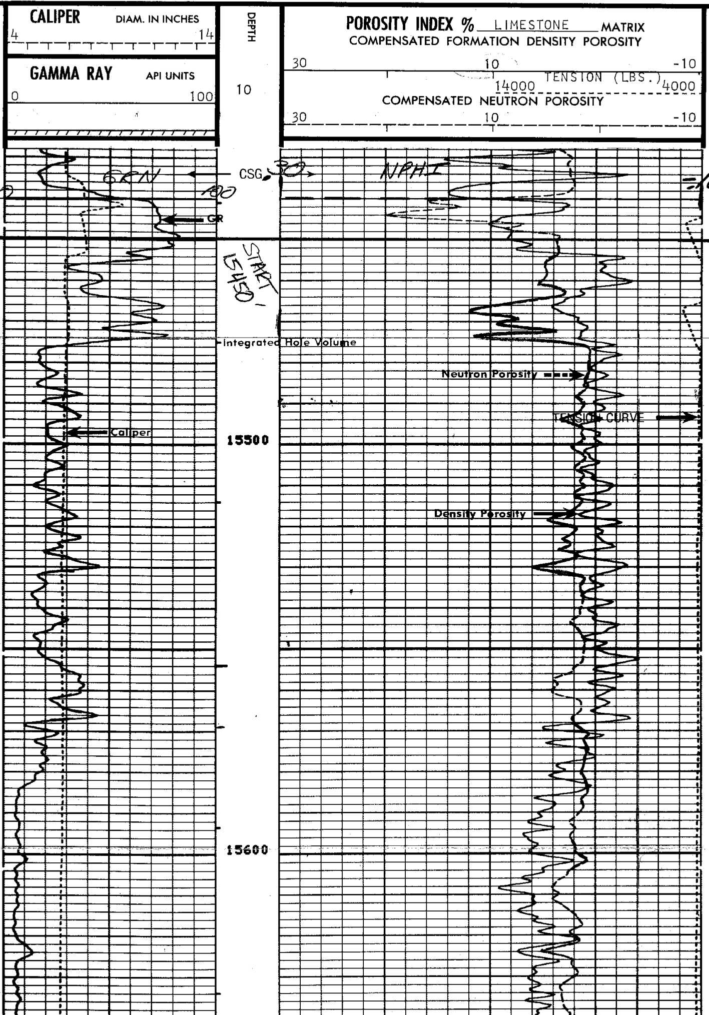
ON RUN TWO: **MR. WILLIAMS.
CNL MULTIPLEXER FAILED AFTER
LOG. LOGGED @ 52 FPM.

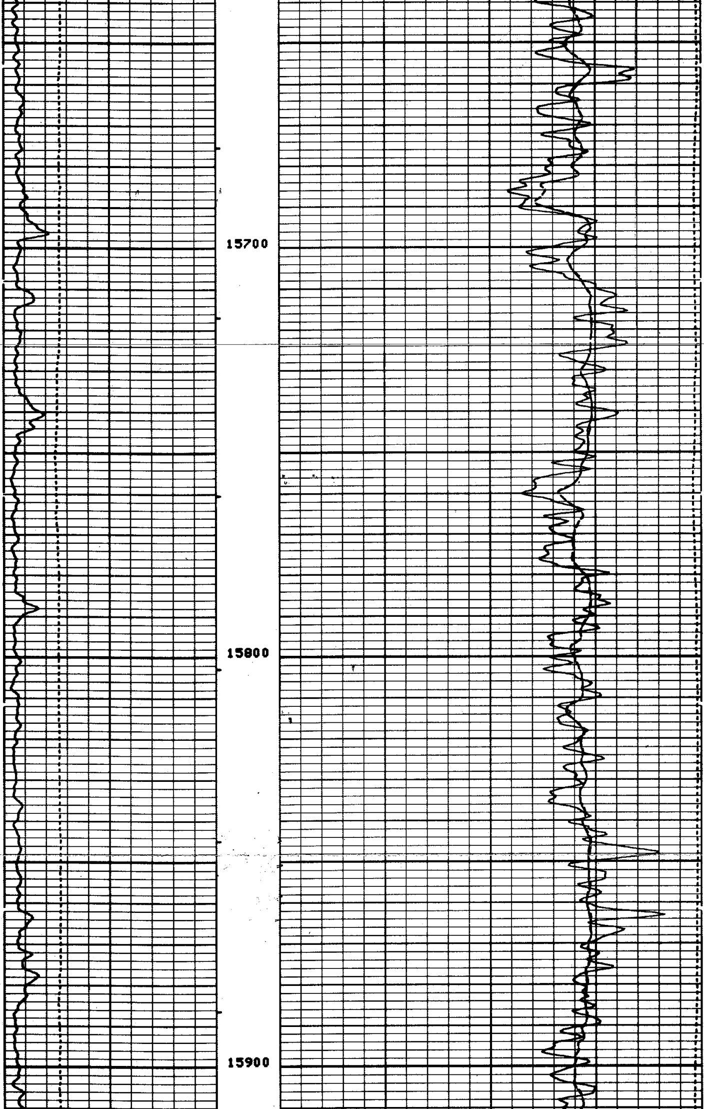
RUN ONE IS COMPLETELY OVERLAPPED
BY RUN TWO.

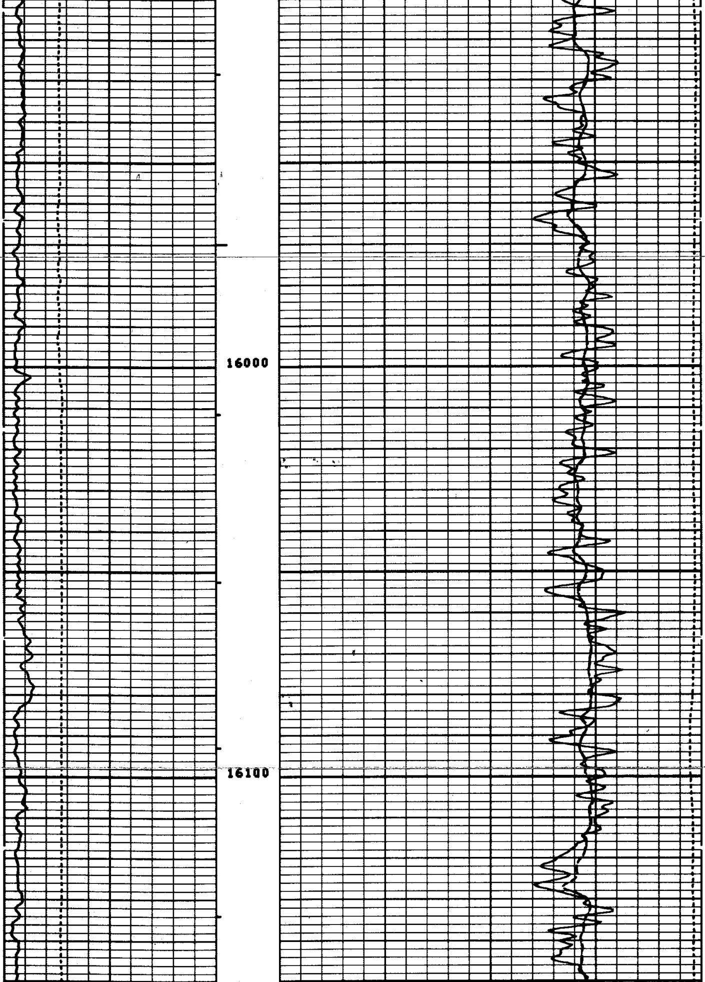
LOGGING DATA

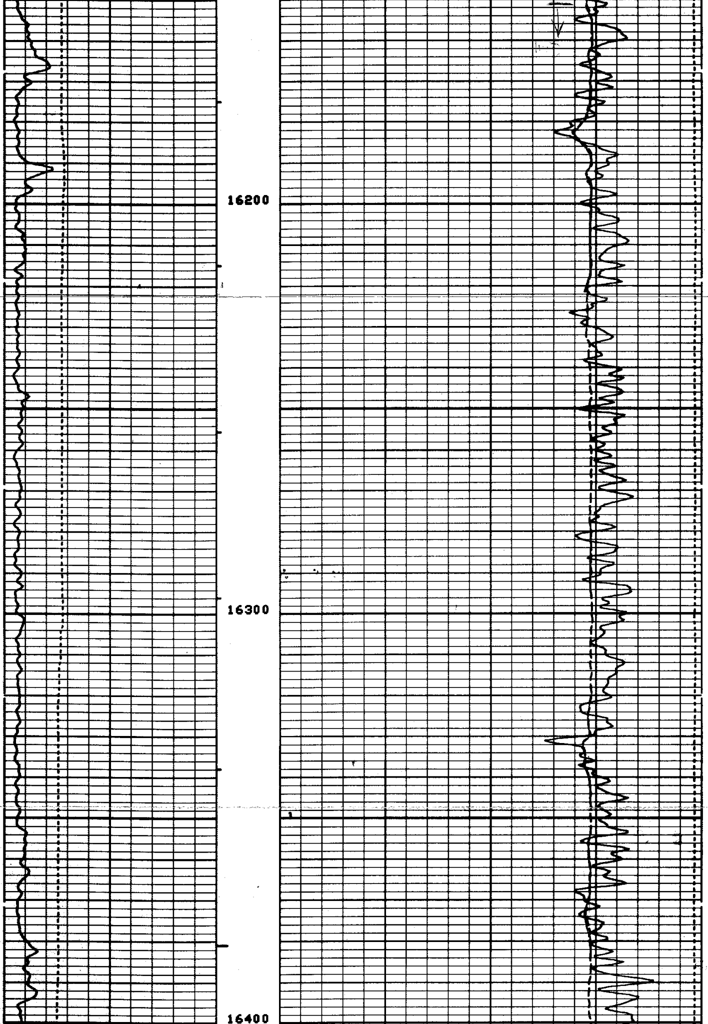
DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.
15690	15434	30/10/-10	LIME	AUTO	30/10/-10	2.71	1.0	WATE	100	--	0	100

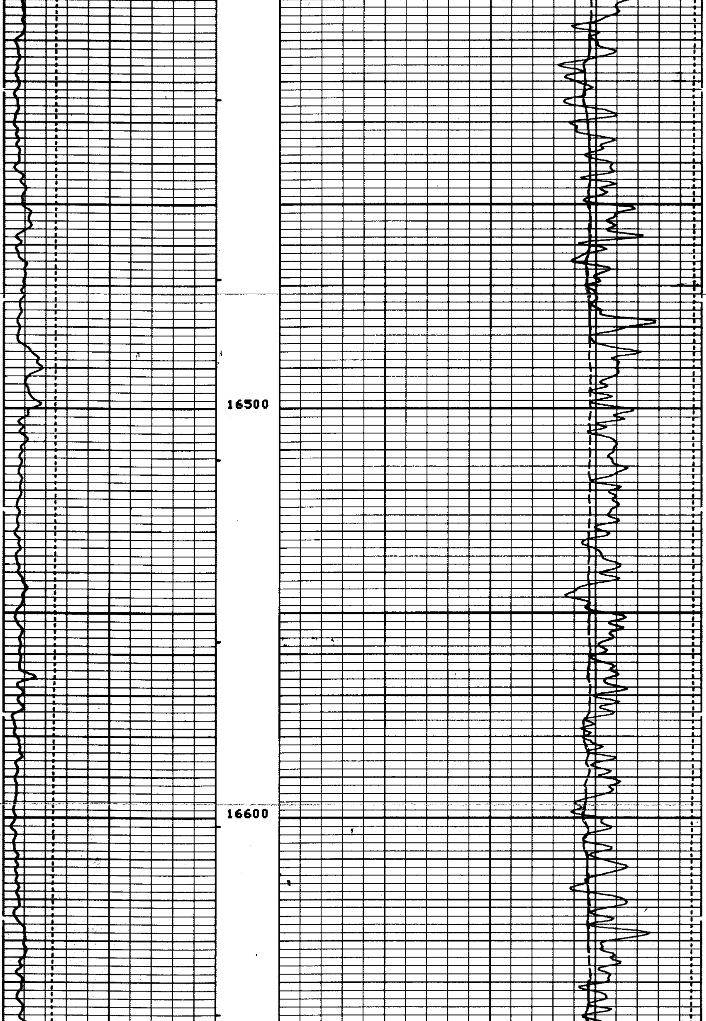
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 as set out in our current Price Schedule.

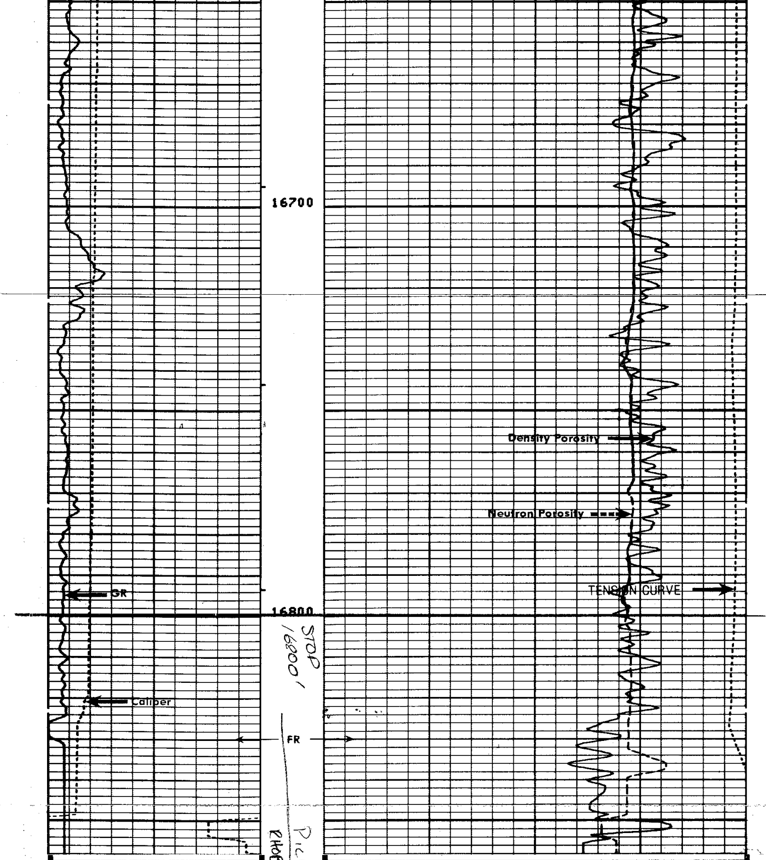












STOP 16800'

Pick up RHOB + Caliper

GAMMA RAY API UNITS

0 100

CALIPER DIAM. IN INCHES

4 10 14

POROSITY INDEX (%) LIMESTONE MATRIX

COMPENSATED FORMATION DENSITY POROSITY

30 10 -10

TENSION (LBS.)

14000 4000

COMPENSATED NEUTRON POROSITY

30 10 -10

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COUNTY MC MULLEN STATE TEXAS

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SCHL. TD 16834
DRLR. TD 16810
Elev:
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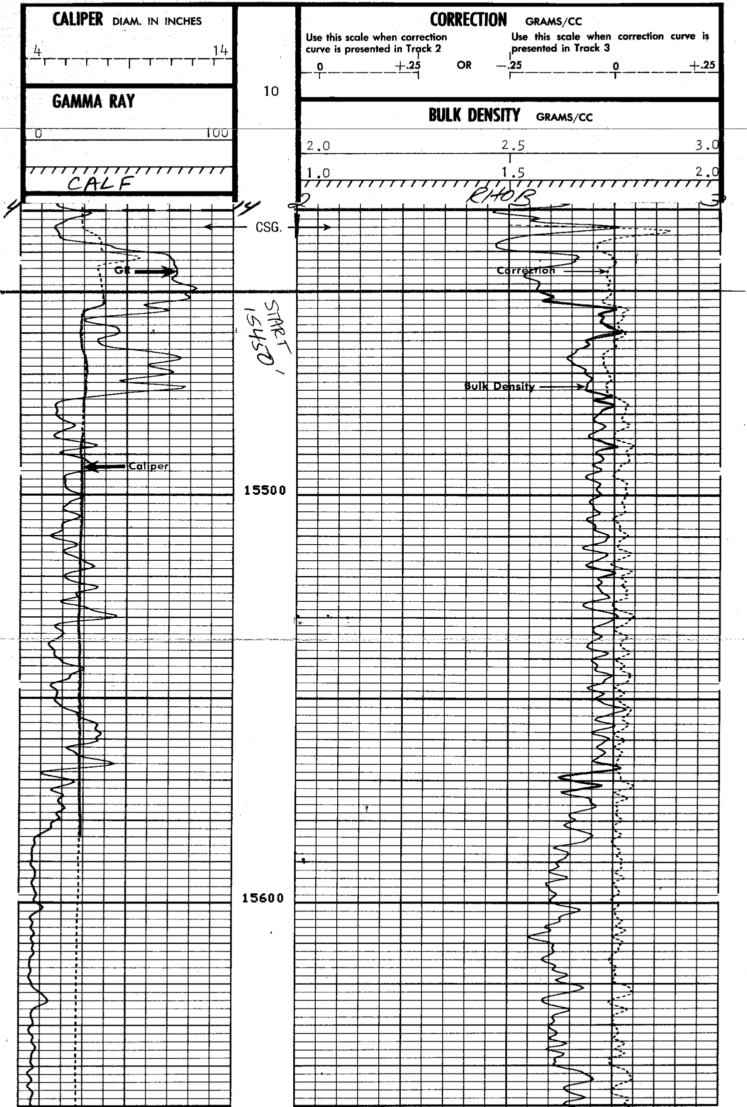
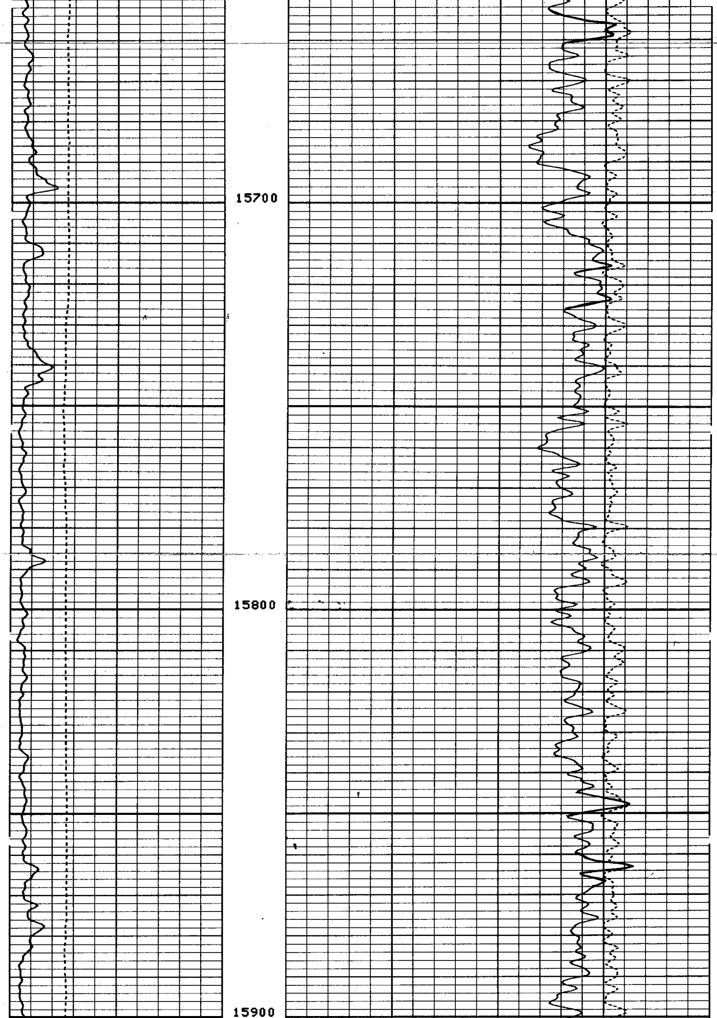
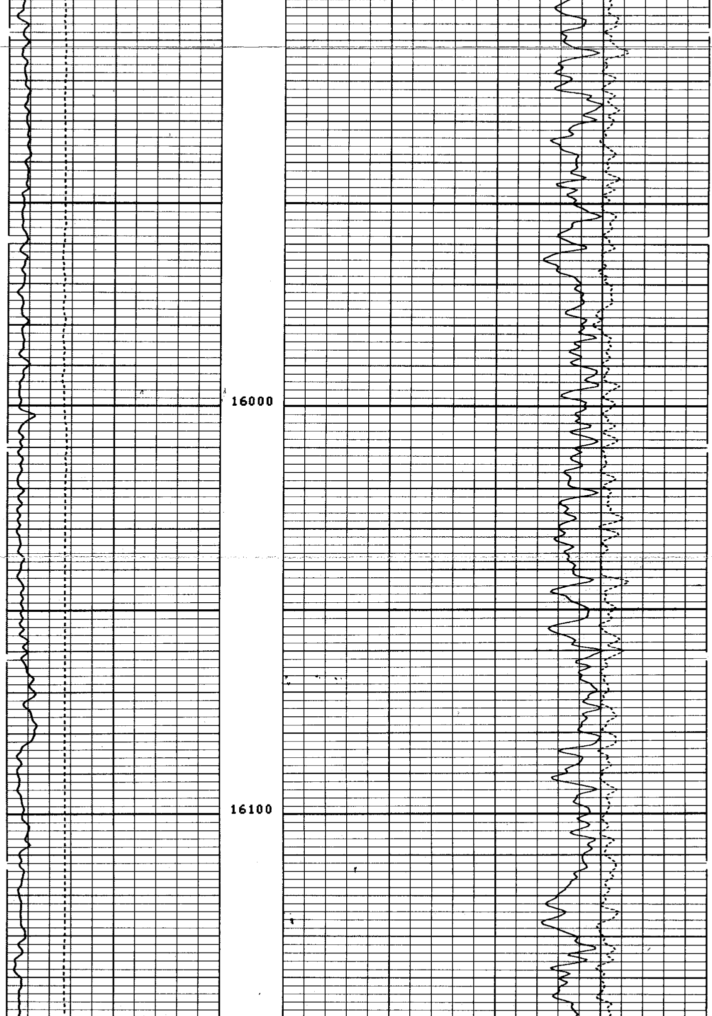
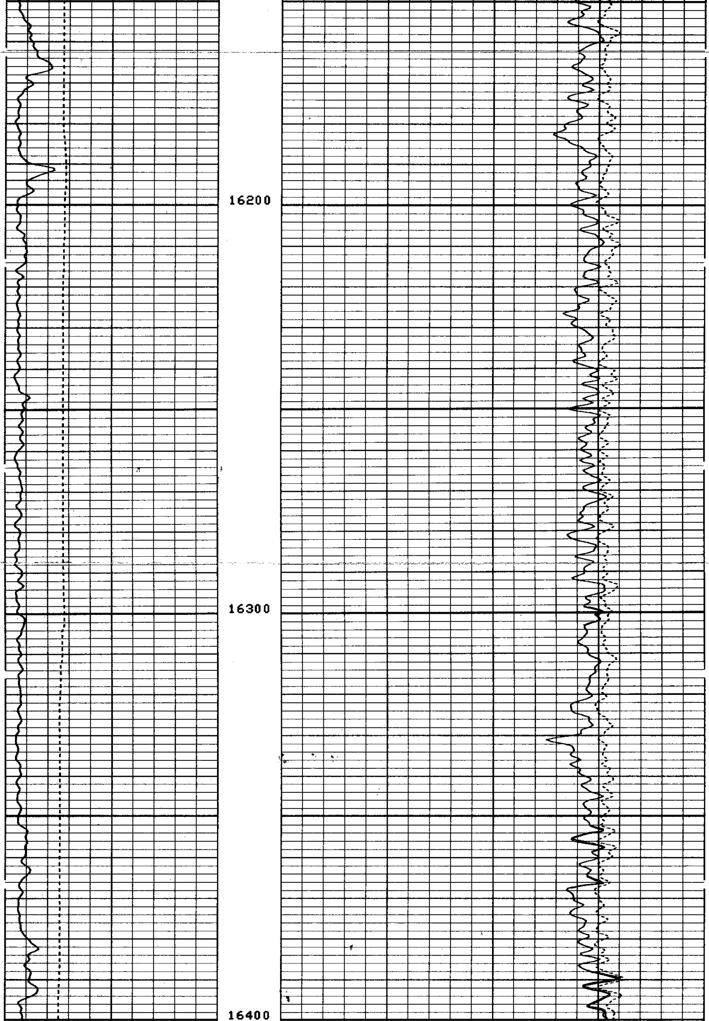
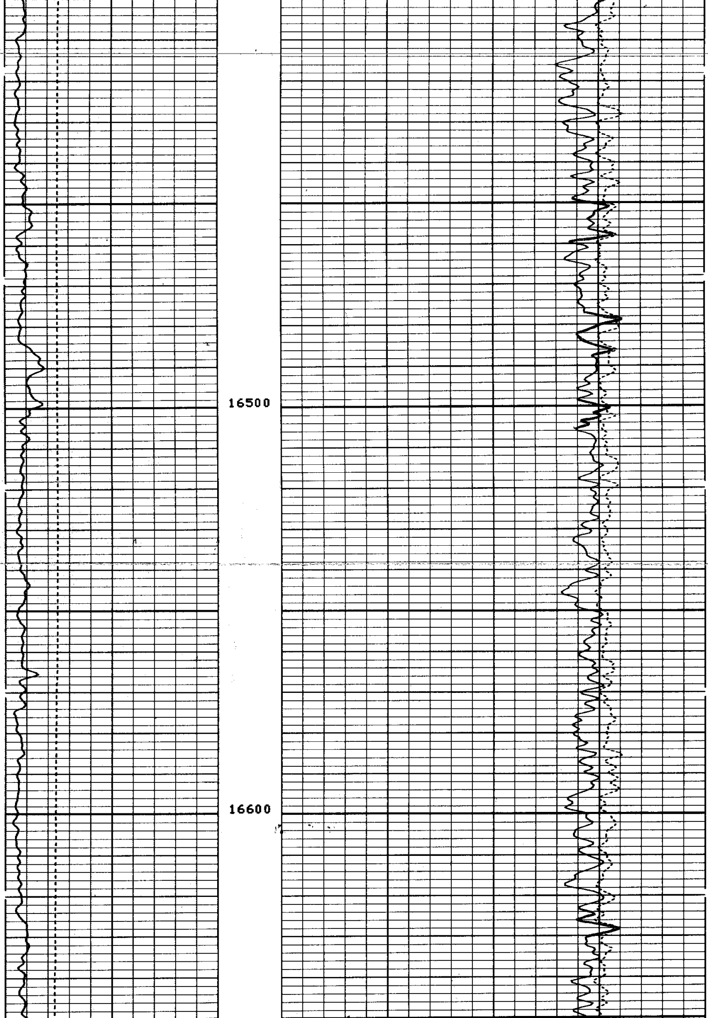
DF 347
GL 325

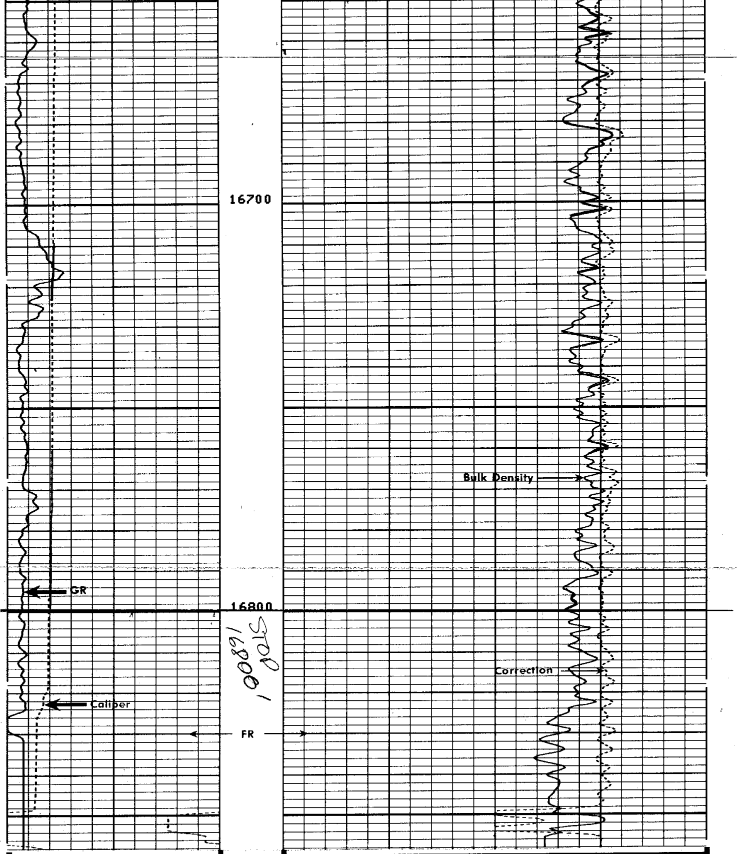












16800'
STD

GAMMA RAY API UNITS

0 100

CALIPER DIAM. IN INCHES

4 14

10

BULK DENSITY GRAMS/CC

2.0 2.5 3.0

1.0 1.5 2.0

CORRECTION GRAMS/CC

Use this scale when correction curve is presented in Track 2

0 +.25

OR

Use this scale when correction curve is presented in Track 3

−.25 0

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SWS–2244-A