50160

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-FORMATION DENSITY

Oct - Shot 2000'

COMPANY: Lone Star Producing Co.

WELL: Anderson #1

FIELD: Wildcat

COUNTY: Nodaway STATE: Missouri

Location: 2310' FNL & 2310' FWL

Other Services: IES

Sec. 17 Twp. 65N Rge. 37W

Permanent Datum: Ground, Elev. 911

Log Measured From: KB, 4 Ft. Above Perm. Datum

Drilling Measured From: KB

Elev.: K.B. 915, D.F. —, G.L. 911

Date	7-13-75	7-16-75
Run No.	ONE	TWO
Depth—Driller	2403	2410
Depth—Logger	2344	2406
Btm. Log Interval	2203	2405
Top Log Interval	330	2000
Casing—Driller	6 5/8 @ 330	8 5/8 @ 330
Casing—Logger	330	330
Bit Size	7 7/8	7 7/8
Type Fluid in Hole	FSH WTR	FSH WTR
Fluid Level	220	250
Dens. / Visc.	NC / NC	NC / NC
pH / Fluid Loss	NC / NC ml	NC / NC ml
Source of Sample	PIT	PIT
Rm @ Meas. Temp.	.28 @ 72 °F	.25 @ 68 °F
Rmf @ Meas. Temp.	—	—
Rmc @ Meas. Temp.	—	—
Source: Rmf / Rmc	—	—
Rm @ BHT	.15 @ 97 °F	.14 @ 99 °F
Time Since Circ.	3 1/2 HRS	4 1/2 HRS
Max. Rec. Temp.	97 °F	99 °F
Equip. / Location	4773 / W.H.	4911 / WICHITA
Recorded By	[illegible]	M. Simmons
Witnessed By	[illegible]	[illegible]

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

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date	Sample No.		
Depth—Driller			
Type Fluid			
Source of Sample			
Rm @ Meas. Temp.		@ °F	@ °F
Rmf @ Meas. Temp.		@ °F	@ °F
Rmc @ Meas. Temp.		@ °F	
Rm @ BHT		@ °F	
Dens. / Visc.			
pH / Fluid Loss		ml	ml
% Water by Vol.			
% Oil by Vol.			
% Solids by Vol.			
Solids Av. Sp. Gr.			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	ONE	TWO
Dens. Pnl.	EA-281	EA-281
Dens. Cart.	EA-297	EA-297
Dens. Skid	D-282	D-282
Dens. Sde	E-227	E-227
Dens. Source	B-2605	B-2605
Dens. Calib.	272	272
Neut. Pnl.	A-25	A-25
Neut. Cart.	A-206	A-206
Neut. Source	EPS12	EPS12
Neut. Calib.	A-136	A-136
GR Cart.	J-296	J-296
FTR	—	—
Mem. Pnl.	B-118	B-118

LOGGING DATA

CNP

Matrix	Auto Hole Size Corr.	Hole Size Setting (if not auto)	Porosity Scale	From	To
LM-OH	☒ Yes ☐ No	—	30/-10	TD	CSG
LM-OH	☒ Yes ☐ No	—	30/-10	TD	2000
	☐ Yes ☐ No				
	☐ Yes ☐ No				
	☐ Yes ☐ No				

FDC

Liquid Density	Grain Density	Hole Fluid	Porosity Scale	From	To
1.0	2.71	LIQ	30/-10	TD	CSG
1.0	2.71	LIQ	30/-10	TD	2000

REMARKS

Service Order No. - 83759, 83760

API Serial No. -

BIT SIZE CASING DATA

Bit	From	To	Csg. Size	Csg. Wt.	From	To
			8 5/8		SURF.	330

CALIBRATION DATA

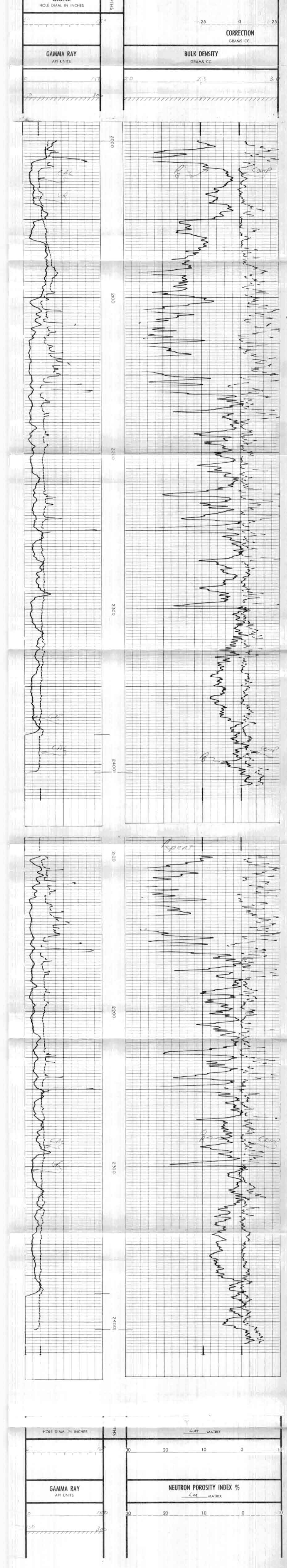
Run No.	Gamma Ray API Scale	Gamma Ray Background CPS	Gamma Ray Total CPS	CNL—Before Log—ACPS Long Spacing	CNL—Before Log—ACPS Short Spacing	CNL—After Log—ACPS Long Spacing	CNL—After Log—ACPS Short Spacing
1	0-200	40	600	384	860	384	860
2	0-200	120	580	392	880	392	880
3							
4							

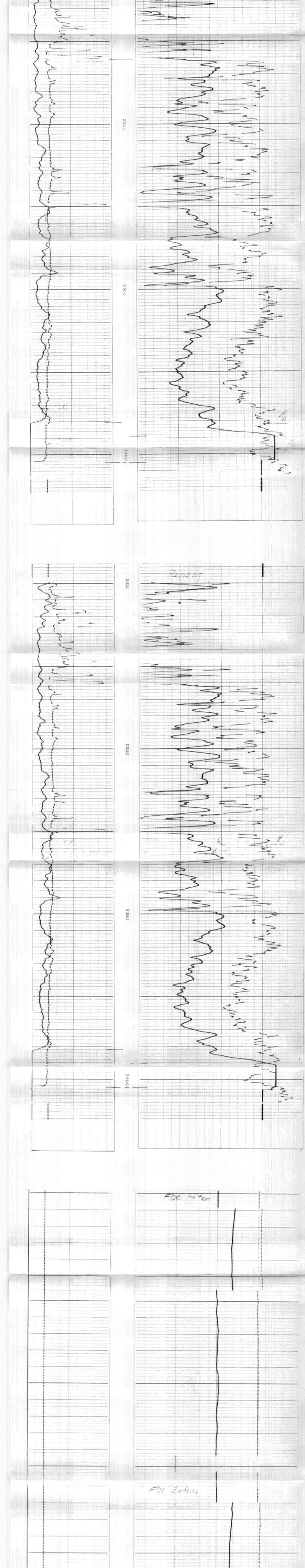
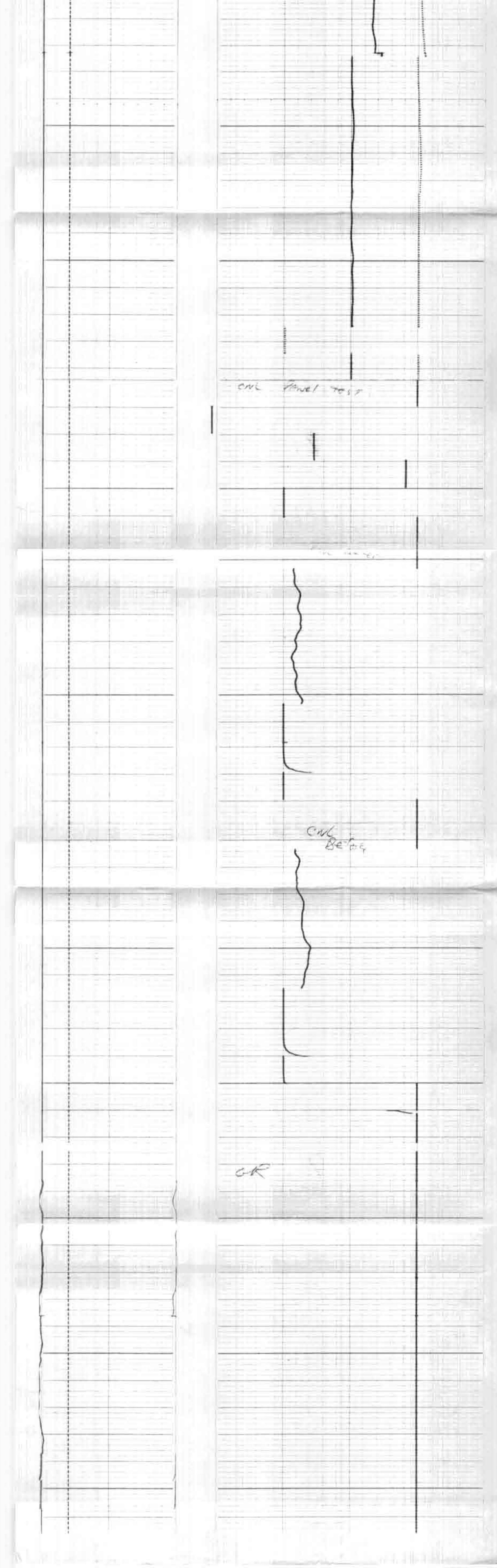
Run No.	FDC—Before Log—ACPS P_1	FDC—Before Log—ACPS P_2	FDC—After Log—ACPS P_1	FDC—After Log—ACPS P_2
1	384	648	384	648
2	392	660	392	660
3				
4				

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 Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

CALIPER — HOLE DIAM. IN INCHES | DEPTHS | CORRECTION — GRAMS CC. (−.25 0 +.25)

GAMMA RAY — API UNITS (0–150; 150–300) | BULK DENSITY — GRAMS CC. (2.0 2.5 3.0)



HOLE DIAM. IN INCHES | LM MATRIX (30 20 10 0 −10)

GAMMA RAY — API UNITS (0–150; 150–300) | NEUTRON POROSITY INDEX % — LM MATRIX (30 20 10 0 −10)