

Strait Ranch 'C' 1 21-21-5E

CORE ANALYSIS REPORT

FOR

PENDLETON LAND AND EXPLORATION, INC.
STRAIT NO: C'1 WELL
MARION COUNTY, KANSAS

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
OKLAHOMA CITY, OKLAHOMA

July 17, 1979

REPLY TO
SUITE 133
400 SOUTH VERMONT
OKLAHOMA CITY, OKLA.
73108

Pendleton Land and Exploration, Inc.
1700 Security Life Building
Denver, Colorado 80202

Subject: Core Analysis Data
Strait No. 1 Well
Marion County, Kansas
CLI File 3402-9725

Gentlemen:

Cores taken in the subject well in the Hunton formation were received at the Oklahoma City laboratory for special analytical testing described on the procedure page.

The accompanying Coregraph presents the Surface Core-Gamma Log and binomially averaged core analysis data in graphical form to aid correlation with downhole electrical surveys.

Tabular presentation of the measured physical properties may be found on pages one and two of this report. Data averages reflecting zone changes are presented on page three.

Oil saturation reported in the cored interval between 2382 and 2412 was found to be contained mainly in the fracture system.

It is a pleasure to have this opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.


J. Michael Edwards for
Dale E. Boyle, District Manager

DEB:JME:nm

5 cc - Addressee

Pendleton Land and Exploration, Inc.
Strait No. 1 Well
CLI File 3402-9725

Procedure Page

Handling and Analytical Procedures

Diamond coring equipment and water base mud were used to obtain 4.0 inch diameter cores between 2349 and 2378, 2382 and 2412 feet.

The cores were preserved at the well site in a CO₂ atmosphere by CLI personnel.

The cores were transported to Oklahoma City by CLI personnel.

A Core-Gamma Log was recorded for downhole E-Log correlation.

Core analysis was made in the intervals requested on right cylinder full diameter samples.

Fluid removal was accomplished using vacuum retorts.

Porosity was determined by density balance method.

Air permeability in two horizontal directions--measured without Klinkenberg correction.

Temporary storage of cores in Oklahoma City laboratory awaiting additional instructions.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PENDLETON LAND & EXP., INC.
STRAIT NO. 01 WELL
MARION COUNTY, KANSAS

DATE: 6/20/79
FORMATION: HUNTON
DRLG. FLUID: WATER BASE MUD
LOCATION:

FILE NO: 3402-9725
ENGINEER: BOYLE
ELEVATION:

SMP. NO.	DEPTH	PERM. TO AIR, MD. MAXIMUM	POROSITY PERCENT	FLUID OIL	SATS. WTR.	GR. DEN.	DESCRIPTION
	2349.0-70.0						SH
	2370.0-2378.0	LOST CORE					
	2378.0-2382.0	DRILLED					
1	2382.0-83.0	25.0	22.4	0.0	97.2	2.80	DOL, PP, VGS, VF
2	2383.0-84.0	26.0	31.8	0.0	97.3	2.73	DOL, SL/LMY, SL/SHY, VF
3	2384.0-85.0	26.0	27.5	1.9	98.2	2.81	DOL, VF
4	2385.0-86.0	50.0	31.8	1.5	97.2	2.75	DOL, SL/SHY, SL/CHT, VF
5	2386.0-87.0	55.0	24.5	1.5	98.1	2.86	DOL, PP, VGS, VF
6	2387.0-88.0	24.0	19.5	0.0	96.8	2.86	DOL, V/LMY
7	2388.0-89.0	15.0	15.6	3.5	94.4	2.85	DOL, PP, VGS, STY, VF
8	2389.0-90.0	34.0	14.3	3.4	94.1	2.84	DOL, VGY, VF
9	2390.0-91.0	70.0	18.0	2.8	93.9	2.86	DOL, PP, VGS, VF
10	2391.0-92.0	31.0	17.3	2.4	95.2	2.86	DOL, SH, LAMS, VGY, VF
11	2392.0-93.0	9.8	12.1	3.6	92.2	2.84	DOL, VGY
12	2393.0-94.0	50.0	16.8	0.0	93.5	2.86	DOL, PP, VGS
13	2394.0-95.0	7.8	12.6	0.0	96.4	2.85	DOL, VGY
14	2395.0-96.0	6.4	12.4	0.0	94.2	2.86	DOL, PP, VGS
15	2396.0-97.0	3.0	12.3	0.0	95.4	2.86	DOL, PP, VGS
16	2397.0-98.0	6.2	14.0	0.0	95.1	2.87	DOL, PP, VGS
17	2398.0-99.0	17.0	18.7	0.0	96.2	2.87	DOL, PP, VGS
18	2399.0-00.0	121.0	19.8	0.0	94.9	2.87	DOL, PP, VGS, VF
19	2400.0-01.0	32.0	15.3	2.0	92.7	2.85	DOL, SL, VGY, VF
20	2401.0-02.0	105.0	21.9	2.9	96.4	2.85	DOL, VGY, VF

WHOLE CORE ANALYSIS

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

FILE NO: 3402-9725
ENGINEER: BOYLE

DATE: 6/20/79
FORMATION: HUNTON

PENDLETON LAND & EXP., INC.
STRAIT NO. 1 WELL

SMP. NO.	DEPTH	PERM. TO AIR MD. MAXIMUM	90 DEG	POROSITY PERCENT	FLUID OIL	SATS. WTR.	GR. DEN.	DESCRIPTION
21	2402.0-03.0	135.0	115.0	22.0	1.6	95.4	2.85	DOL, SLTY, VGY, VF
22	2403.0-04.0	158.0	138.0	30.2	0.0	95.5	2.87	DOL, SLTY, STY, VGY, VF
23	2404.0-05.0	165.0	156.0	30.8	0.0	95.9	2.87	DOL, BP VGS, VF
24	2405.0-06.0	153.0	131.0	29.8	0.0	96.6	2.87	DOL, PP VGS, VF
25	2406.0-07.0	477.0	364.0	31.5	0.0	92.8	2.87	DOL, STY, VGY, VF
26	2407.0-08.0	351.0	308.0	31.8	0.0	97.7	2.87	DOL, VGY, VF
27	2408.0-09.0	66.0	65.0	18.9	0.0	96.2	2.87	DOL, SLTY, STY, VGY, VF
28	2409.0-10.0	88.0	69.0	22.7	0.0	91.4	2.87	DOL, SLTY, PP VGS
29	2410.0-11.0	126.0	110.0	27.0	0.0	94.7	2.87	DOL, PP VGS
30	2411.0-12.0	292.0	266.0	31.6	0.0	92.7	2.87	DOL, SLTY, PP VGS

+ DENOTES HORIZONTAL CRACKS

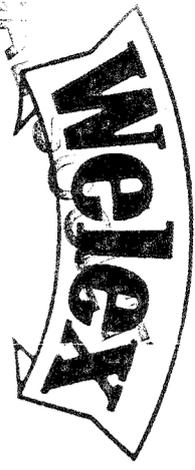
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CORE SUMMARY

Company PENDLETON LAND AND EXPLORATION, INC.
 Well STRAIT NO. 1
 Page 3 of 3 File 3402-9725

DEPTH FEET	HORIZONTAL PERMEABILITY, Md.		POROSITY PER CENT	SATURATION		GRAIN DENSITY
	MAXIMUM	90 DEGREES		OIL	WATER	
2382.0-87.0	37	32	28.8	1.0	97.6	2.79
2387.0-94.0	33	18	16.2	2.2	94.3	2.85
2394.0-98.0	5.9	5.1	12.8	0.0	95.3	2.86
2398.0-03.0	82	72	19.5	1.3	95.1	2.86
2403.0-12.0	208	179	28.3	0.0	94.8	2.87

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GAMMA-GUARD LOG

COMPANY: **WELLS EXPLORATION, INC.**
 WELL: **#1 STRAIT RANCH "C"**
 FIELD: _____
 County: **WAGON** State: **KANS.**

COMPANY: **WELLS EXPLORATION, INC.**
 WELL: **#1 STRAIT RANCH "C"**
 FIELD: _____
 COUNTY: **WAGON** STATE: **KANSAS**
 Twp: **21S** Rge: **5E**
 Elevation: **1402'**
 Other Services: **CAVIL**

Date	5-1-57	Drilling Measured From	BLUENING	Elev. K.B.	1402'
Run No.	08	Drilling Measured From		D.F.	
Depth—Driller	21	Drilling Measured From		G.L.	
Depth—Welex	21				
Bitm. Log Inter.	21				
Top Log Inter.					
Casing—Driller	8-				
Casing—Welex	7-				
Bit Size	7-				
Type Fluid in Hole	DI				
Dens. I Visc.	9.1				
pH I Fluid Loss	8.				
Source of Sample	PLA				
R _m @ Meas. Temp.	1.5				
R _m @ Meas. Temp.	1.5				
R _m @ Meas. Temp.	2.0				
Source: R _m R _m					
R _m @ BHT	1.45				
Time Since Circ.					
Max. Rec. Temp.					
Equip. I Location					
Recorded By					
Witnessed By					

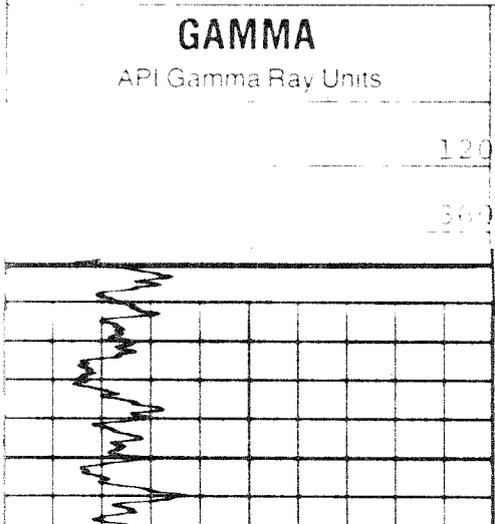
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Service Ticket No. 44074 Remarks:

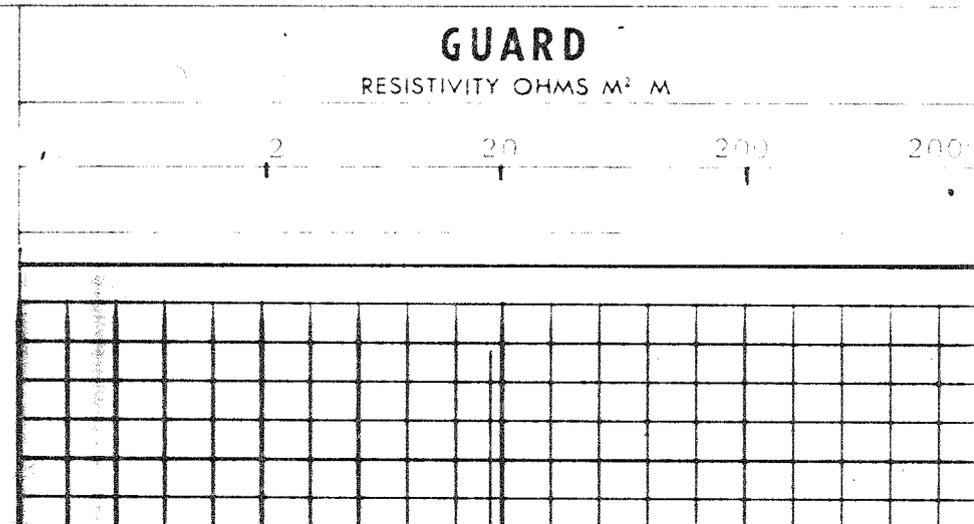
Change in Mud Type or Additional Samples				SCALE CHANGES			
Date	Sample No.	I	I	Type Log	Depth	Scale Up Hole	Scale Down Hole
				GAMMA-GRD	2402'	NO CHANGES	
Type Fluid in Hole							
Dens.	Visc.	I	I				
pH	Fluid Loss	I	ml				
Source of Sample				EQUIPMENT DATA			
R _m @ Meas. Temp.		@	F	Run No.	Tool Type and No.	Part Type	Tool Position
R _m @ Meas. Temp.		@	F	08	17277		
R _m @ Meas. Temp.		@	F				
Source: R _m R _m		I	I				
R _m @ BHT	1.45	@95	F				
R _m BHT	1.2	@95	F				
R _m BHT	1.65	@95	F				

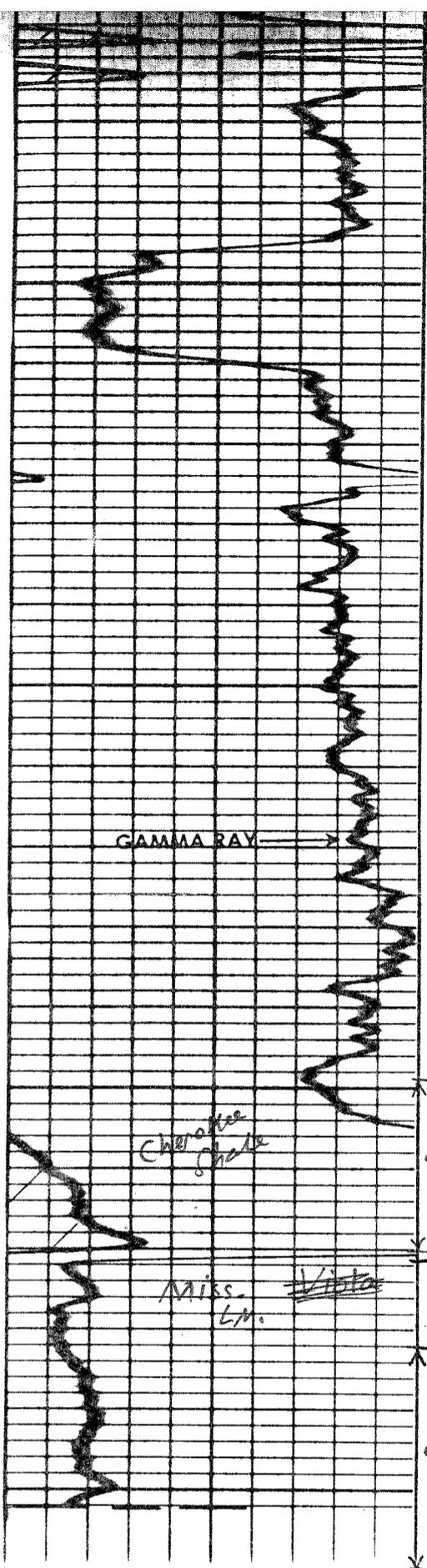
WELLS EXPLORATION, INC. warrants the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by WELLS EXPLORATION, INC. which may appear on the log or in any other form. Any user's such data, interpretations, conversions, or recommendations address that WELLS EXPLORATION, INC. shall not be held responsible for any loss or damage, or any expense, resulting from the use thereof.

2" = 100'



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GAMMA RAY

Cherokee Shale

Miss. Lm.

2300

E₁

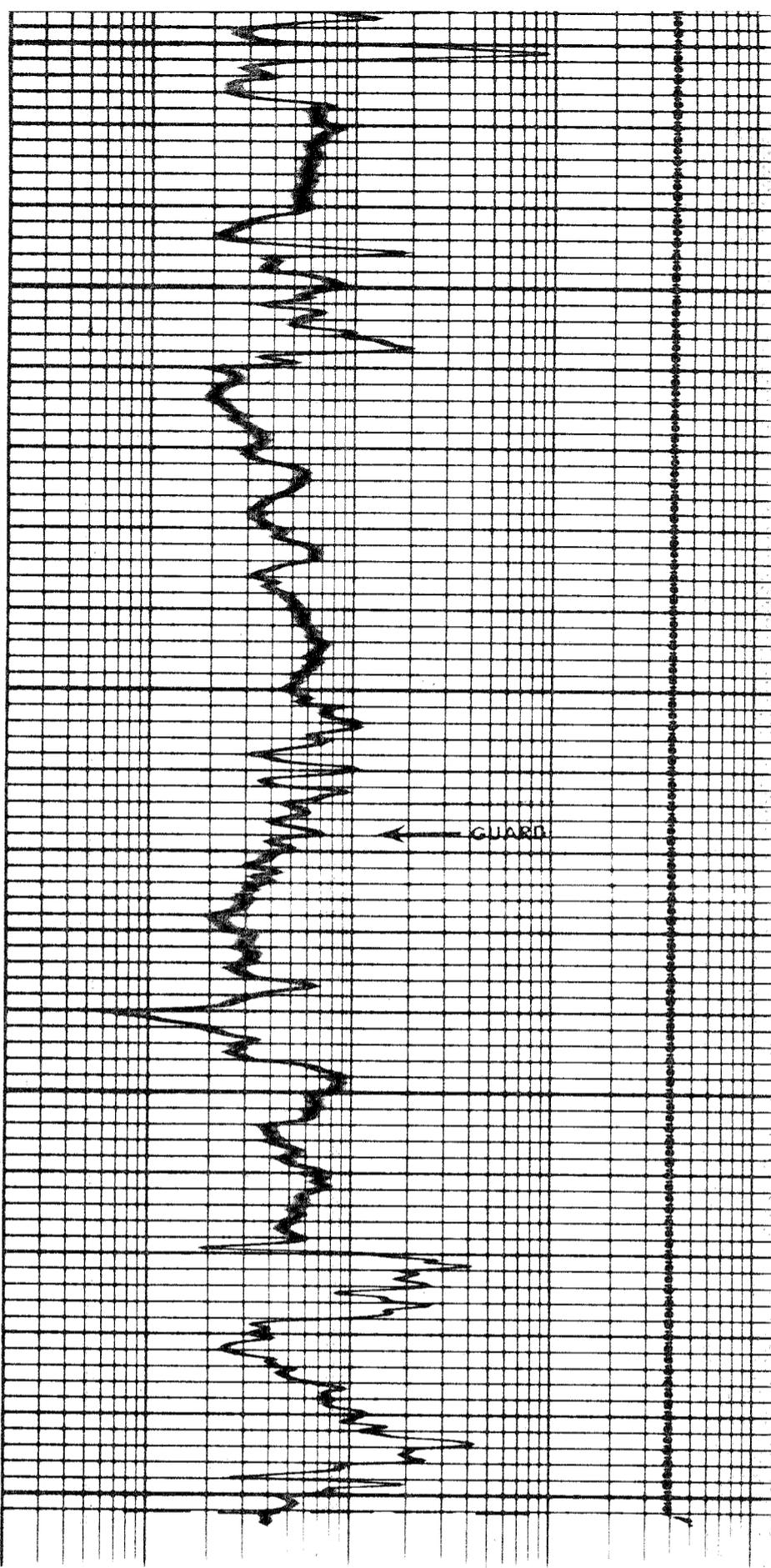
-969

E₂

2400

GAMMA

API Gamma Ray Units



GUARD

GUARD

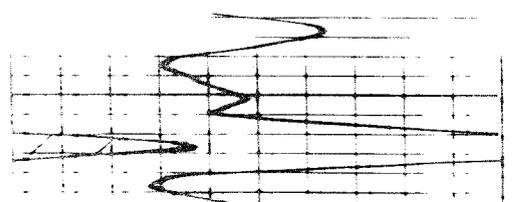
RESISTIVITY OHMS M. M.

BEAUFORT LAND & EXPLORATION, INCORPORATED

TD LOGGED 2402'

TD WEI BY

REPEAT SECTION



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