BOREHOLE COMPENSATED SONIC LOG

SCHLUMBERGER
WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COMPANY: CARTHAGE OIL ENTERPRISES

WELL: 1-B PRESTONSON, A-47

FIELD: WILDCAT

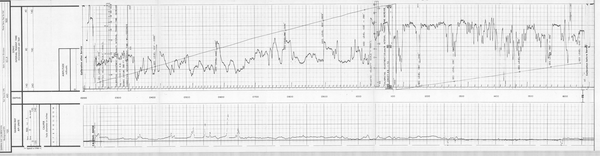
COUNTY: PRESTONSON

STATE: TEXAS

Permanent Datum:	Ground Level	Elevation:	1234.00
Log Measured From:	Kelly Bushing	15.00 Above Perm. Datum	
Drilling Measured From:	Kelly Bushing		

Date	3-12-61		
Run Number	ONE		
Depth-Driller	10,000		
Depth-Logger	10,000		
Bottom Log Interval	9,998		
Top Log Interval	9,000		
Casing-Driller	9 5/8 @ 2,000		
Casing-Logger	9 5/8 @ 2,000		
Bit Size	8 3/4		
Type Fluid in Hole	DRILL MUD		
Density	9.8	Viscosity	45
pH	10.5	Fluid Loss	6.0
Source of Sample	PITS		
Rm @ Meas. Temp.	.65 @ 75°		
Rmf @ Meas. Temp.	.50 @ 75°		
Rmc @ Meas. Temp.	.75 @ 75°		
Source: Rmf / Rmc	MEASURED / CALCULATED		
Rm @ BHT	.35 @ 200°		
Time Since Circulation	24 HRS		
Max. Rec. Temp.	200°		
Equipment Location	3-B		
Recorded By	J. HOLMES		
Witnessed By	W. CLARK		

Run No.	ONE		
Bottom Interval	9,998		
Top Interval	9,000		
Type Log	SONIC		
Scale	5		
Time Constant	3		
Speed	120		
Max. Recorded Temp.	200°		
Equipment Number	3-B		
Location	PRESTONSON		
Recorded By	J. HOLMES		
Witnessed By	W. CLARK		



Reflection Coefficient: $R_c = \frac{V_2 - V_1}{V_2 + V_1}$ 1.000" Int. Time2

Interval Velocity: 2,000" / Travel Time2

Depth Reflection Coefficient

Uncorrelated Integrated Time

Depth Reflection Path Smoothing

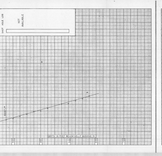
Calibrated Integrated Time

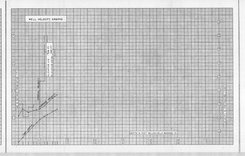
Computed Cycle Time

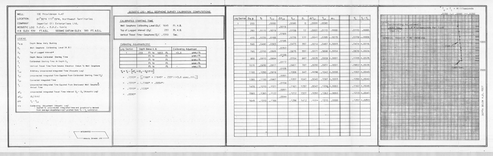
OPERATING SPECIFICATIONS

Company: CARTHAGE OIL
Well: 1-B Prestonson A-47
Field: Wildcat, Prestonson County, Southeast Texas
Service Company: Schlumberger Well Surveying Corp.
Equipment Number: 3-B
Logging Unit Number: Standard Schlumberger Logging Unit, Model 7-Channel
Cable Type: Mono Cable
Cable Length: 7,000 Ft.
Logging Speed: 120 Ft. / Min.
Time Constant: 3
Sensitivity: 5
Depth Scale: 5" / Inch
Time Lines: 1 Line / Sec.
Recorded Channels: 1
Recorded Traces: 1
Recorded Cycles: 1
Deviation Control Equipment: None
Average Mud Pit Temperature: 75°F
Average Hole Temperature: 200°F

Transducer Unit Supply: 28 Vc
Minimum Unit Supply: 28 Vc
Total Capacitance: 0.0 Mfd.
Max. Recorded Voltage Variation: 0.5 Vc. Change
Max. Voltage Variation Causing Recording Error: 0.5 Vc. Change
Transmitter Voltage: 1,000 Vc.
Transmitter Current: 0.5 Amp.
Transmitter Frequency: 20 Kc.
Transmitter Pulse Length: 25 Microsec.
Transmitter Pulse Shape: Square
Transmitter Pulse Rate: 20 Pulses / Sec.
Receiver Gain: 2,000
Receiver Bandwidth: 2 Kc.
Receiver Pulse Shape: Square
Receiver Pulse Rate: 20 Pulses / Sec.
Receiver Pulse Length: 25 Microsec.
Receiver Sensitivity: 1 Mv.
Receiver Noise Level: 0.5 Mv.
Receiver Dynamic Range: 2,000
Receiver Time Delay: 0.5 Microsec.
Receiver Phase Shift: 0.5 Microsec.
Receiver Amplitude Response: Flat
Receiver Phase Response: Linear
Receiver Frequency Response: Flat






LOCATION: [illegible]
COMPANY: [illegible]
TEST DATE: [illegible]
CALIBRATION CONSTANTS
CALIBRATION TESTING
Wall Velocity Calibration Constant Total = [illegible]
Top of Liquid Column Vel. = [illegible]
Average Wall Time Magnitude = [illegible]