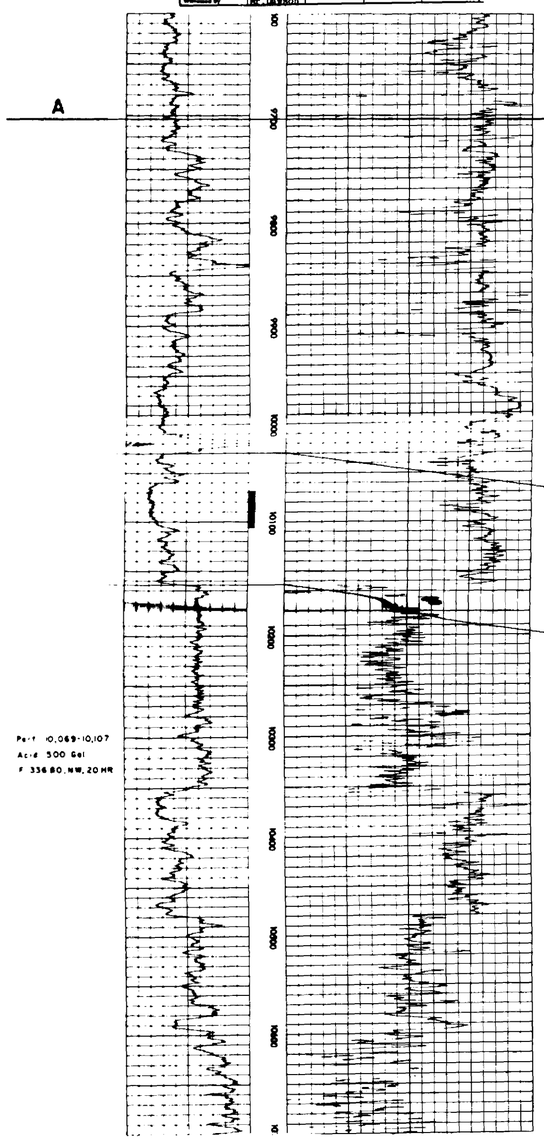
WELEX — ACOUSTIC VELOCITY LOG

Company	TEXACO INCORPORATED
Well	STATE "Q" # 4
Field	VACUUM
County	LEA
State	NEW MEXICO
Location	500' FSL 760' FEL
Sec. 25	Twp. 17-S Rge. 34-E
Other Services	Ind-Elec Cont-Cal
Permanent Datum	Ground Level Elev. 3992
Log Measured From	K.B. 12 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Elev.: K.B.	4004
D.F.	4003
G.L.	3992

Date	10-29-63			
Run No.	One			
Depth—Driller	12,285			
Depth—Logger	12,285			
Btm. Log Inter.	12,279			
Top Log Inter.	20			
Casing—Driller	9-5/8@ 4800	@	@	@
Casing—Logger				
Bit Size	8-3/4"			
Type Fluid in Hole	Mud			
Density / Visc.	10 / 157			
pH / Fluid Loss	8.5 / 5.2 ml		ml	ml
Source of Sample	Circulated			
Rm @ Meas. Temp.	0.42 @ 70°F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.30 @ 70°F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	0.42 @ 70°F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	Measured			
Rm @ BHT	0.52 @ 160°F	@ °F	@ °F	@ °F
Time Since Circ.				
Max. Rec. Temp.	160°F @ 12H	°F @	°F @	°F @
Equip. / Location	9121 Hobbs			
Recorded By	Ayres, Lyons			
Witnessed By	Mr. Dawson			

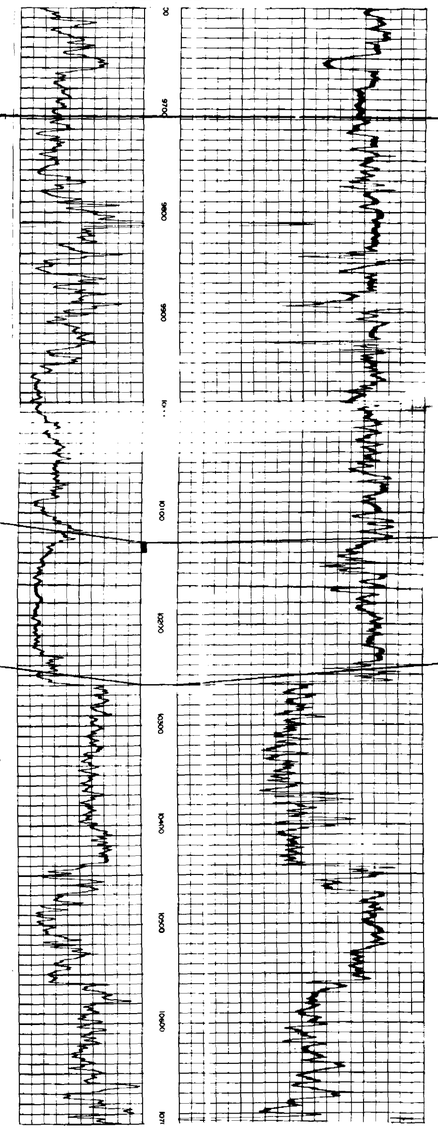


PAN GEO ATLAS CORP. — PGAC Acoustic-Gamma Ray Log

File No.	
Company	TEXACO INCORPORATED
Well	STATE OF NEW MEXICO "Q" No. 4
Field	VACUUM (DEV., PENN., & WOLFCAMP)
County	LEA State NEW MEXICO
Location	1980' FNL, 560' FEL
Other Services	CL
Sec. 3	Twp. 17 S Rge. 34 E
Permanent Datum	GROUND LEVEL Elev. 3989
Log Measured from	K.B. 13 Ft. Above Permanent Datum
Drilling Measured from	K.B.
Elevations: KB	4002
DF	4005
GL	3989

Date	6-30-63
Run No.	ONE
Total Depth Driller	11510
Total Depth PGAC	11511
Bottom Logged Interval	11506
Casing Driller	4796
Casing PGAC	
Footage Logged	11306
Mud Type	FRESH MUD
Density / Visc.	11.6 / [illegible]
Max. Temp. (F)	167°F
Rec. To Rec. Spacing	31
Trans. To Rec. Spcg.	4"
Logging Instrument	TLATTO 75 (723-222-6237)
Equip. No.	EL-25
Recorded By	GARET
Witnessed By	MR. DAWSON

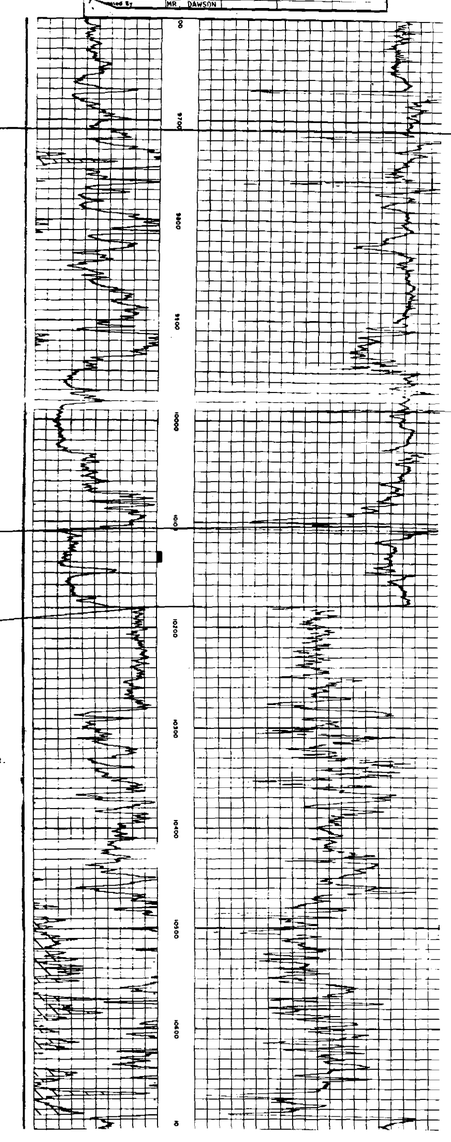
BORE HOLE RECORD			CASING RECORD				
Bit Size	From	To	Csg. Size	Csg. Wt.	From	To	
17 1/2	SURF.	1555	13 3/8		SURF.	1555	
12 1/4	1555	4796	9 5/8		SURF.	4796	
8 3/4	4796	11510					



PLANE WELLS — Schlumberger Acoustilog DUAL-SPACED

Company	TEXACO, INCORPORATED
Well	STATE OF NEW MEXICO "Q"-12, TRACT NO. 1
Field	VACUUM DEVONIAN, UNDESIGNATED PENN & WOLFCAMP
County	LEA
State	NEW MEXICO
Location	760' FSL & 2080' FWL
Other Services	IND-E.S. M/L-CALIPER
Sec. 36	Twp. 17-S Rge. 34 E
Permanent Datum	GROUND LEVEL Elev. 3997
Log Measured from	K.B. 12 Ft. Above Permanent Datum
Drilling Measured from	K.B.
Elevations: KB	4009
DF	4008
GL	1997

Date	5/22/63			
Run No.	ONE			
Depth—Driller	12,082			
Depth—Logger	12,081			
Bottom Logged Interval	12,077			
Top Logged Interval	SURFACE			
Casing—Driller	9 5/8@ 4727	@	@	@
Casing—Logger	4727			
Bit Size	8 3/4"			
Type Fluid in Hole	FRESH MUD			
Density and Viscosity	9.4 / 66			
pH and Fluid Loss	8.8 / cc	cc	cc	cc
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	0.5 @ 72°F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.0 @ 72°F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.0 @ 72°F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS.			
Rm @ BHT	1.1 @ 170°F	@ °F	@ °F	@ °F
Time Since Circ.	6 HOURS			
Max. Rec. Temp. Deg. F	170°F	°F	°F	°F
Equip. No. and Location	4596 / HOBBS			
Recorded By	WASSELL			
Witnessed By	MR. DAWSON			



Datum (-5700')

Upper Pennsylvanian Main Pay

3016

Exhibit No. 3

TEXACO Inc.
Hobbs District

Cross-section A-A'
Vacuum Upper Pennsylvanian Field
Lea County, New Mexico

Datum: -5700'
Vertical Scale: 0 50' 100' 150'
Horizonal Scale: Not to scale
Drawn By: WHM—Da Date: 3/18/64