Case No
7412

Large Exhibits



Welex
DIGITAL LOGGING SYSTEM

COMPENSATED DENSITY DUAL SPACED NEUTRON LOG

COMPANY GULF OIL EXPLORATION & PRODUCTION CO.
WELL LEA "ZD" STATE # 1
FIELD AIRSTRIP BONESPRINGS
COUNTY LEA STATE NEW MEXICO
Location 990' FSL & 330' FWL
Other Services: Guard-Forxo
Sec. 30 Twp. 18-S Rge. 35-E

Permanent Datum	Ground Level	Elev. 3954	Elev.: K.B. 3970.5
Log Measured From	K. B. - 16.5	Ft. Above Perm. Datum	D.F. 3969.5
Drilling Measured From	Kelly Bushing		G.L. 3954

Date	5-23-81		
Run No.	- One -		
Depth—Driller	9450		
Depth—Welex	9448		
Btm. Log Inter.	9447		
Top Log Inter.	Surface		
Casing—Driller	8-5/8" @ 3415		
Casing—Welex	3528		
Bit Size	7-7/8"		
Type Fluid in Hole	Salt Base Mud		
Dens. / Visc.	9.2 128		
pH / Fluid Loss	8.5 / ml	ml	ml
Source of Sample	PIT		
R_m @ Meas. Temp.	.08 @ 72 °F	@ °F	@ °F
R_mf @ Meas. Temp.	.07 @ 64 °F	@ °F	@ °F
Source R_m / R_mf	Measured		
R_mc @ BHT	.05 @ 138 °F		
Time Since Circ.	10 Hours		
Max. Rec. Temp.	138 °F @ 9.H.	°F	
Equip. / Location	2910 Hobbs		
Recorded By	Chapman		
Witnessed By	Mr. Carson		

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
CONOCO EXHIBIT NO.
CASE NO.
Submitted by
Hearing Date

EXHIBIT 10
CASE #7412
November 19, 1981

Run No. - One -
Date Recorded 5-23-81
Depth—Driller 9450
Depth—Welex 9448
Btm. Log Interval 9447
Top Log Interval Surface
Casing—Driller 8-5/8" @ 3415
Casing—Welex 3528
Bit Size 7-7/8"
Type Fluid in Hole Salt Base Mut
Dens. / Visc. 9.2 / 128
pH / Fluid Loss 8.5 / ml
Source of Sample PIT
R_m @ Meas. Temp. .08 @ 72 °F
R_mf @ Meas. Temp. .07 @ 64 °F
Source R_m / R_mf Measured
R_mc @ BHT .05 @ 138 °F
Time Since Circ. 10 Hours
Max. Rec. Temp. 138 °F @ 9.H.
Equip. / Location 2910 Hobbs
Recorded By Chapman
Witnessed By Mr. Carson

EQUIPMENT DATA

	DENSITY	GAMMA RAY	NEUTRON
Run No.	- One -	- One -	- One -
Serial No.	3-2-81	3-2-81	3-2-81
Detector Model No.	1210	1210	1210
Detector Serial No.	1218	1218	1218
Date	5-23-81	5-23-81	5-23-81
Time	0815	0815	0815
Source Model No.	108	108	1.5 Ci Cs
Source Serial No.	1324	1324	1.5 Ci Cs
Source	300 mc. Cs-137	300 mc. Cs-137	1.5 Ci Cs-137
Shielding	500 lbs.	500 lbs.	500 lbs.
Tool Serial No.	1218	1218	1218
Tool Code	DEN	GR	CNL
Sensitivity	1	1	1
Time Constant	1 sec.	1 sec.	1 sec.
Logging Speed	30 FPM	30 FPM	30 FPM
Density Window	2.0		
Mud Density	9.2		
Caliper Correction	Yes		
Hole Size	7-7/8"		
Tool Centralized	Yes		
Recorded By	Chapman		
Witnessed By	Mr. Carson		

	GAMMA RAY	NEUTRON
Run No.	- One -	- One -
Serial No.	3-2-81	3-2-81
Detector Model No.	1210	1210
Detector Serial No.	1218	1218
Date	5-23-81	5-23-81
Time	0815	0815
Source Model No.	108	1.5 Ci Cs
Source Serial No.	1324	1.5 Ci Cs
Source	300 mc. Cs-137	1.5 Ci Cs-137
Shielding	500 lbs.	500 lbs.
Tool Serial No.	1218	1218
Tool Code	GR	CNL
Sensitivity	1	1
Time Constant	1 sec.	1 sec.
Logging Speed	30 FPM	30 FPM

	GAMMA RAY
Run No.	- One -
Serial No.	3-2-81
Detector Model No.	1210
Detector Serial No.	1218
Date	5-23-81
Time	0815
Source Model No.	108
Source Serial No.	1324
Source	300 mc. Cs-137
Shielding	500 lbs.
Tool Serial No.	1218
Tool Code	GR
Sensitivity	1
Time Constant	1 sec.
Logging Speed	30 FPM

Recorded Literature: GR 1823

Source Code No.

Field Notes

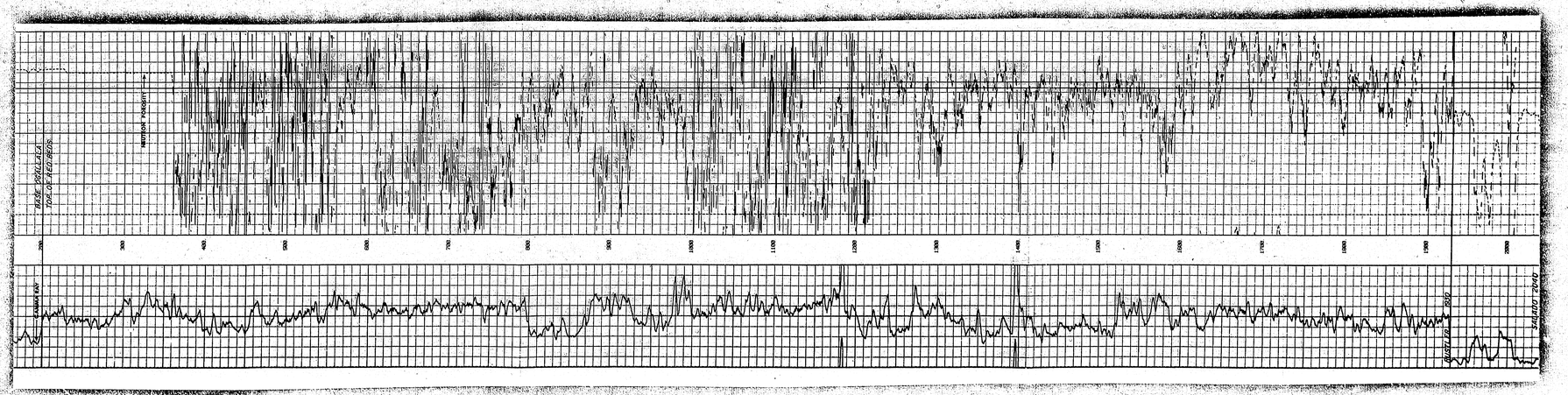
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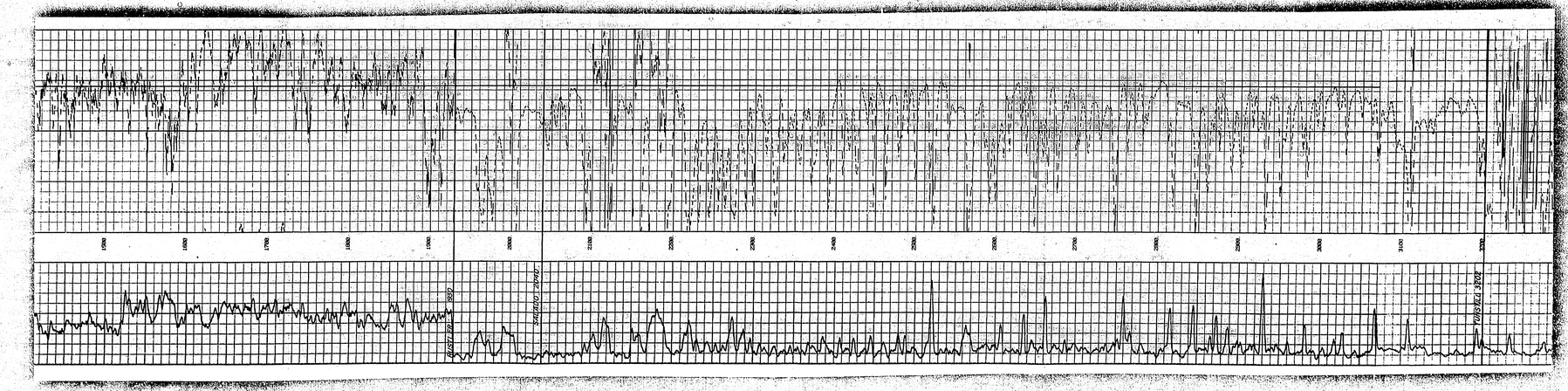
2" = 100'

BASE DRILLER'S TOP OF EL PASO

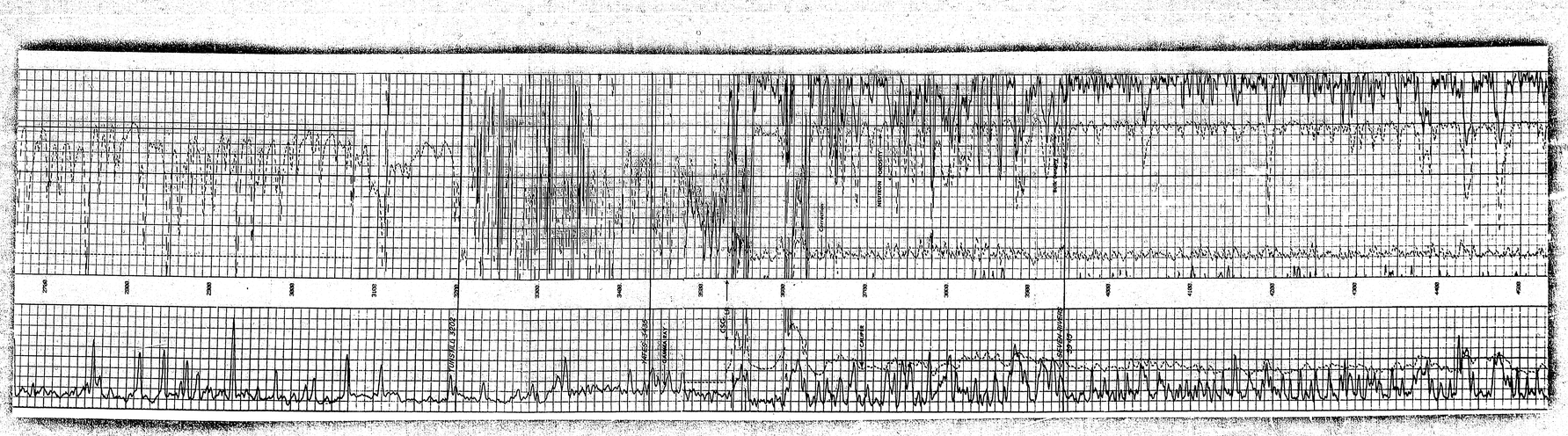
BULK DENSITY
CORRECTION
G.R.
NEUTRON POROSITY
CALIPER
GAMMA RAY




BASE SIGLIA
TOPE DE REGISTRO
MEDIDA PROMEDIO
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
LUMINANCIA
SALADO 2040

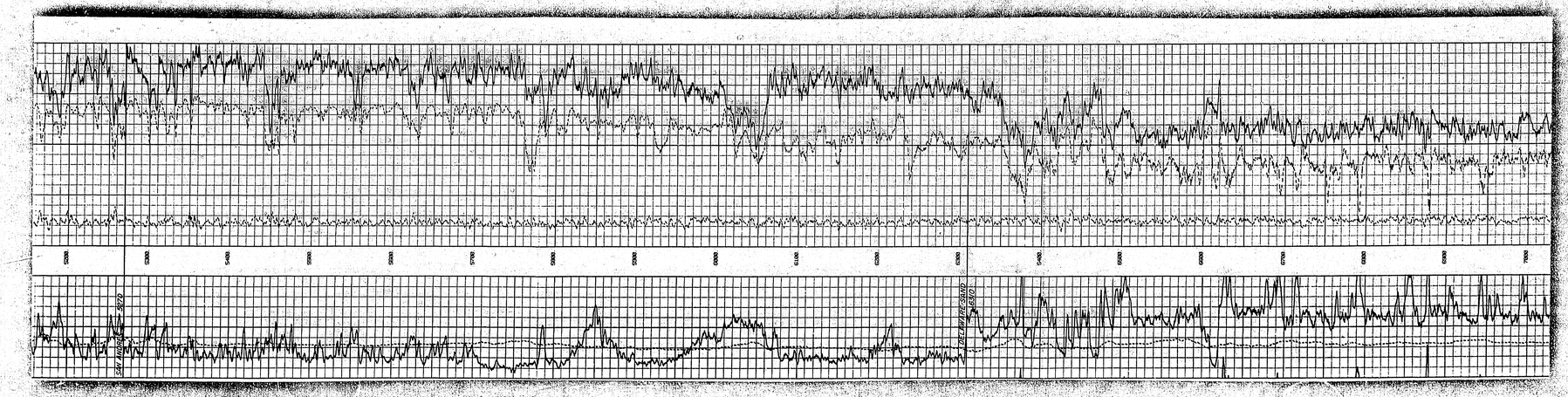


V.I.R.G.I. MICROGRAPHICS
BEST AVAILABLE COPY

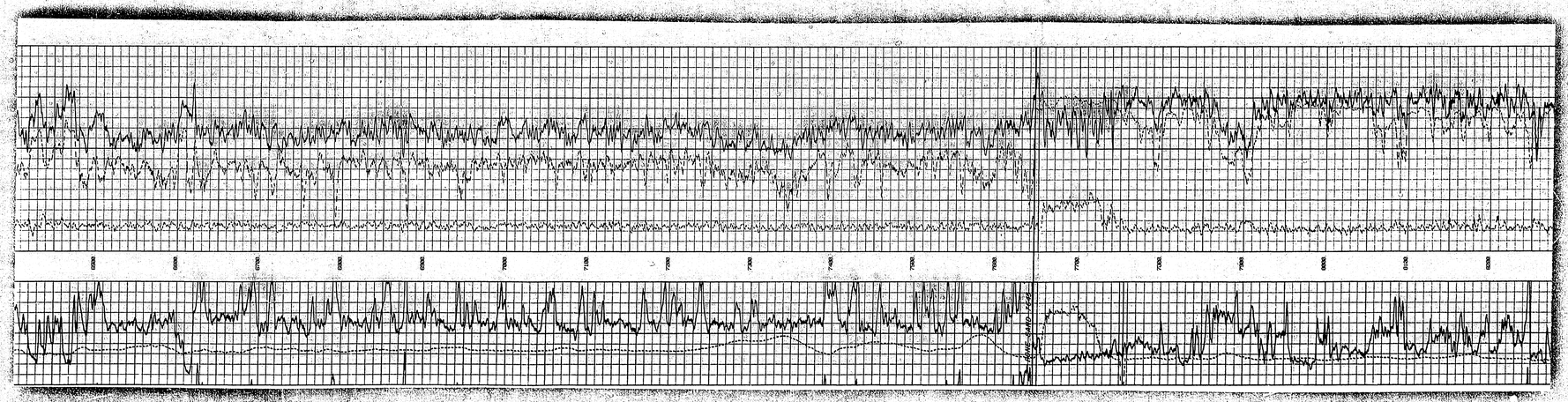

2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
HERTON COUNTY
DOLE TYRRELL SAND
HERTON COUNTY
CRETACEOUS
DOLE TYRRELL SAND

V.P.A.C.F. HOMEGRAPHICS

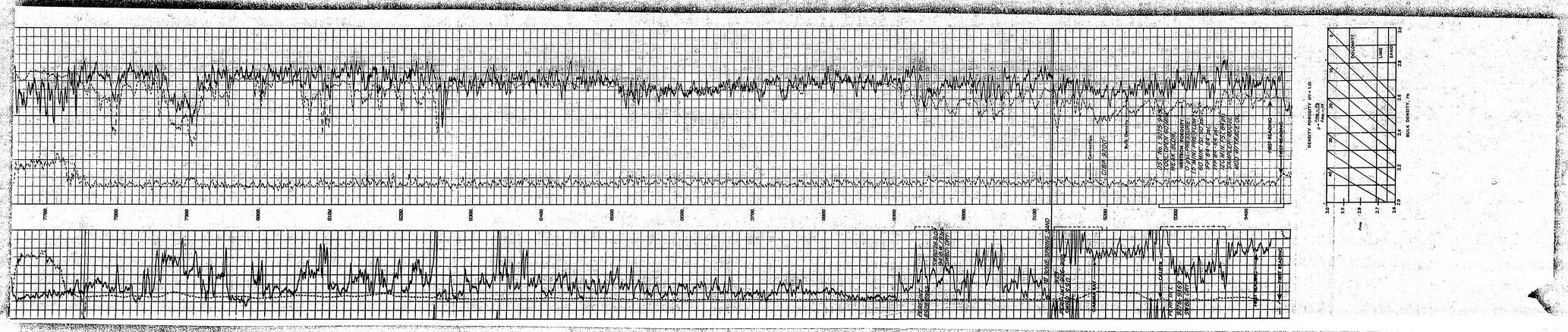
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U.S.G.S. SEISMOGRAPHS
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U.S.A.C.F. RECORDS
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7700
7600
7500
6900
6100
6000
5400
5000
4900
2700
1800
4900
5000
5100
5200
5300
5400
Correction
Drill Depth
Bulk Density
DST No. 1 875-945
TOOL OPEN 30 MIN.
INITIAL FLOW PRESSURE
0 PSI/MIN. 30 MIN.
INITIAL SHUT-IN PRESSURE
0 PSI/MIN. 30 MIN.
FINAL FLOW PRESSURE
0 PSI/MIN. 30 MIN.
FINAL SHUT-IN PRESSURE
0 PSI/MIN. 30 MIN.
RECOVERY-TOTAL FEET
0 FEET OF MUD
FIRST READING
FIRST READING
Gamma Ray
Caliper
Bit Size
Mud Type
Mud Wt.
Visc.
Fluid Loss
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source of Rmf and Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp. Deg. F.
Equip. No. and Location
Recorded By
Witnessed By
FIRST READING
FIRST READING
DENSITY POROSITY (Ma = 2.65 g/cc, Δφ = 0 p.u., Fluid = 1.0 g/cc)
BOUNDARIES
LIME
SAND
BULK DENSITY, ρb
Ma
Fluid


U.S.A.F. RESTRICTED
NOT RELEASABLE ABROAD