Schlumberger

Mobil Producing Texas & New Mexico Inc.

Ward Estate #1

Ward Estate

Lea County, New Mexico

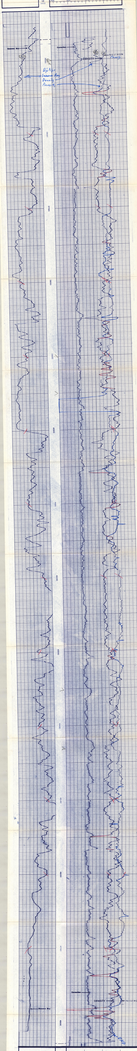
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
Elevation:	K.B. 3,966 ft.
	D.F.
	G.L.
Date:	12-Jan-1994
Run Number:	ONE
Depth Driller:	12,000 ft.
Depth Logger:	12,000 ft.
Bottom Logged Interval:	11,996 ft.
Top Logged Interval:	3,000 ft.
Casing Driller Size:	13 3/8 @ 3,000 ft.
Casing Logger Size:	13 3/8 @ 3,000 ft.
Bit Size:	12 1/4
Type Fluid in Hole:	Brine
Density:	10.0
Viscosity:	32
Fluid Loss:	8.0
Source of Sample:	Pit
Rm @ Measured Temp:	0.0 @ 0
Rmf @ Measured Temp:	0.0 @ 0
Rmc @ Measured Temp:	0.0 @ 0
Source: Rmf / Rmc:	Measured / Calculated
Rm @ BHT:	0.0 @ 0
Time Since Circulation:	0 hrs.
Time Since Last Log:	0 hrs.
Max. Recorded Temp:	0
Equipment Number:	5705
Location:	Hobbs, New Mexico
Recorded By:	Jones
Witnessed By:	Mr. Hoover

BIT RECORD								
No.	Size	Type	Jets	In	Out	Footage	Hours	Condition
1	12 1/4	HTC	13	3,000	12,000	9,000	192	1-1-1

MUD PROPERTIES							
Type	Density	Viscosity	Fluid Loss	pH	Resistivity	Chlorides	Calcium
Brine	10.0	32	8.0				

CASING RECORD				
Size	Weight	Grade	Thread	Depth
13 3/8	48.0	H-40	ST&C	3,000

Logging Engineer:	Jones	Operating Rig Time:	
Operating Mode:	Production	Logging Unit Number:	5705


GAMMA RAY
0 API UNITS 100
CAPACITY
COMPENSATED DENSITY
BULK DENSITY (GRAM/CC)
2.0 2.5 3.0
COMPENSATED NEUTRON
POROSITY
45 % -15
Zone of Interest
Zone of Interest
Zone of Interest