GAMMA RAY-NEUTRON

Schlumberger

Company	Mobil Oil Corporation
Well	Gulf Federal Unit 1
Field	Wildcat
County	Lea
State	New Mexico
Other Services	Dual Induction Laterolog, Sonic, Caliper, Gamma Ray
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	K.B. 3744 ft.
D.F.	
G.L.	
Date	1-2-1973
Run Number	One
Depth-Driller	12,000 ft.
Depth-Logger	12,000 ft.
Bottom Logged Interval	12,000 ft.
Top Logged Interval	11,800 ft.
Casing-Driller	13 3/8 @ 1,500 ft.
Casing-Logger	1,500 ft.
Bit Size	12 1/4 in.
Type Fluid in Hole	Brine
Density	10.0 lb/gal
Viscosity	40 sec
Fluid Loss	10.0 cc
Source of Sample	Pit
Rm @ Meas. Temp.	0.25 @ 75 °F
Rmf @ Meas. Temp.	0.20 @ 75 °F
Rmc @ Meas. Temp.	0.50 @ 75 °F
Source Rmf / Rmc	Calculated / Calculated
Rm @ BHT	0.15 @ 200 °F
Time Since Circulation	24 hrs.
Time Since Last Run	
Max. Rec. Temp.	200 °F
Equipment Location	Hobbs, New Mexico
Recorded By	Jones
Witnessed By	Mr. Hodge

Mobil Oil Corporation

Gulf Federal Unit 1

Wildcat

Lea, New Mexico

Dual Induction Laterolog, Sonic, Caliper, Gamma Ray

Ground Level

Kelly Bushing

K.B. 3744 ft.

D.F.

G.L.

1-2-1973

One

12,000 ft.

12,000 ft.

12,000 ft.

11,800 ft.

13 3/8 @ 1,500 ft.

1,500 ft.

12 1/4 in.

Brine

10.0 lb/gal

40 sec

10.0 cc

Pit

0.25 @ 75 °F

0.20 @ 75 °F

0.50 @ 75 °F

Calculated / Calculated

0.15 @ 200 °F

24 hrs.

200 °F

Hobbs, New Mexico

Jones

Mr. Hodge

This well name, number and location are reported as shown on the last page of this section.

EQUIPMENT DATA	
Truck No.	1-1-4
Cabin No.	1-1-4
Unit Type	Mark II
Recorder Type	Mark II
Recorder No.	1-1-4
Recorder Tape No.	1-1-4
Recorder Tape Width	12 in.
Recorder Speed	1 in/min
Recorder Sensitivity	1 mv
Recorder Time Lines	1 sec
Recorder Depth Lines	10 ft.
Recorder Depth Scale	1 in/100 ft.
Recorder Pen Color	Black
Recorder Pen Size	1 in.
Recorder Paper Type	Dark Blue
Recorder Paper Width	12 in.

REMARKS	
Recorded Depth Scale	1 in/100 ft.
Recorded Time Scale	1 in/min
Gamma Ray Scale	0-100 API
Neutron Scale	40-0 Lime

CALIBRATION DATA					
Gamma Ray Calibrator No.	1-1-4				
Gamma Ray Calibrator Type	Mark II				
Gamma Ray Calibrator Date	1-2-1973				
Neutron Calibrator No.	1-1-4				
Neutron Calibrator Type	Mark II				
Neutron Calibrator Date	1-2-1973				
Neutron Source	Americium Beryllium				
Neutron Source Strength	1 Curie				
Neutron Source Type	Sealed				
Neutron Source Date	1-2-1973				
Neutron Source Serial No.	1-1-4				
Neutron Source Holder	Lead				
Neutron Source Shielding	Lead				
Neutron Source Position	Bottom				
Neutron Source Distance	1 in.				
Neutron Source Shielding Thickness	1 in.				

CASING DATA					
Casing Size	13 3/8 in.				
Casing Weight	48 lb/ft				
Casing Grade	J-55				
Casing Type	Seamless				
Casing Shoe	1,500 ft.				
Casing Collar	1,500 ft.				
Casing Depth	1,500 ft.				
Bottom Hole Temperature	200 °F				
Time Since Circulation	24 hrs.				
Time Since Last Run					
Max. Rec. Temp.	200 °F				
Equipment Location	Hobbs, New Mexico				
Recorded By	Jones				
Witnessed By	Mr. Hodge				

Run	Casing Size	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Type Fluid in Hole	Density	Viscosity	Max. Rec. Temp.	Equipment Location	Recorded By	Witnessed By
One	13 3/8 @ 1,500 ft.	12,000 ft.	12,000 ft.	12,000 ft.	11,800 ft.	Brine	10.0 lb/gal	40 sec	200 °F	Hobbs, New Mexico	Jones	Mr. Hodge

Scale	Gamma Ray	Neutron
Left	0 API units	40 Lime
Right	100 API units	0 Lime

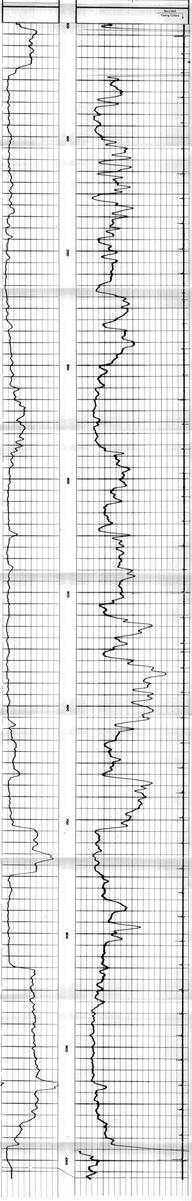
GAMMA RAY API units

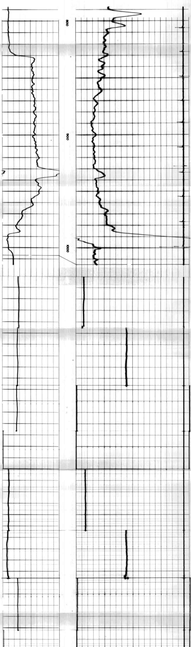
0 100

NEUTRON LIME units

40 0

Recorded Schlumberger Wireline Company





GAMMA RAY NEUTRON CALIBRATION CODING

1. GAMMA RAY TRIP
2. ELECTRICAL BASIS
3. GAMMA RAY CALIBRATOR ON NEUTRON 1,2,3,...,175 CM
4. 1M ON 1M OFF
5. NEUTRON ON GAMMA 1,2,3,...,175
6. GAMMA RAY ON NEUTRON
7. NEUTRON ON TOP 1,2,3,...,175
8. NEUTRON ON BOTTOM