Welex

DENSITY LOG

COMPANY	JOHN M. GREATHOUSE
WELL	BILL & LEE ROBERTS RANCH INC. # 1
FIELD	WILDCAT
County	POLK State MO.

RELEASED

COMPANY	JOHN M. GREATHOUSE
WELL	BILL & LEE ROBERTS RANCH INC. # 1
FIELD	WILDCAT
COUNTY	POLK STATE MISSOURI
Location	SE SW
Sec.	16 Twp. 35N Rge. 23W
Other Services:	IEL
Permanent Datum	GROUND LEVEL Elev. 1032'
Log Measured From	GROUND LEVEL Ft. Above Perm. Datum
Drilling Measured From	GROUND LEVEL
Elev. K.B.	---
D.F.	---
G.L.	1032'

Date	1-16-71			
Run No.	ONE			
Depth—Driller	1530'			
Depth—Welex	1534'			
Btm. Log Inter.	1533'			
Top Log Inter.	80'			
Casing—Driller	8 5/8" @ 200'	@	@	@
Casing—Welex	---			
Bit Size	7"			
Type Fluid in Hole	FRESH WATER			
Dens. / Visc.	--- / ---	/	/	/
pH / Fluid Loss	--- / --- ml	/ ml	/ ml	/ ml
Source of Sample	BOILER			
R_m @ Meas. Temp.	19.0 @ 70 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source R_{mf} / R_{mc}	--- / ---	/	/	/
R_m @ BHT	19.0 @ 70 °F	@ °F	@ °F	@ °F
Time Since Circ.	---			
Max. Rec. Temp.	70 °F @ 1530'	°F @	°F @	°F @
Equip. / Location	7679 / SHAW	/	/	/
Recorded By	HAYES			
Witnessed By	MR. GREATHOUSE			

Fold Here

EQUIPMENT DATA

GAMMA RAY				GAMMA DENSITY			
Run No.	ONE			Run No.	ONE		
Tool Model No.	121			Log Type	ARTICULATED		
Diameter	3-5/8"			Tool Model No.	121		
Detector Model No.	102			Diameter	4"		
Type	SCINT			Detector Model No.	124		
Length	4"			Type	SCINT		
Distance to Source	188"			Length	1-1/2"		
				Source Model No.	DCS		
GENERAL				Serial No.	DCS-40		
Hoist Truck No.	7679			Spacing	---		
Instrument Truck No.	7679			Type	CS-137		
Tool Serial No.	---			Strength	500 MC		

LOGGING DATA

GENERAL				GAMMA RAY					GAMMA DENSITY			
Run No.	Depths From	Depths To	Speed Ft./Min.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	Units per Log Div.
ONE	1533'	80'	20	2	100	0	10	2	1000	12R	50

Reference Literature:

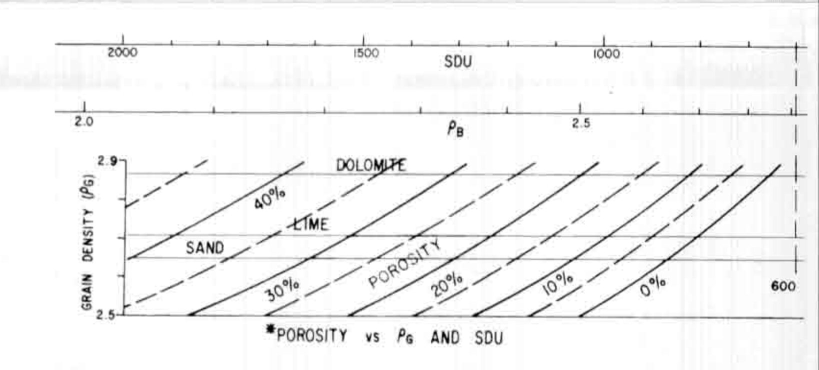
CALIPER
Average Diameter In.

GAMMA
API Gamma Ray Units

GAMMA DENSITY
STANDARD DENSITY UNITS

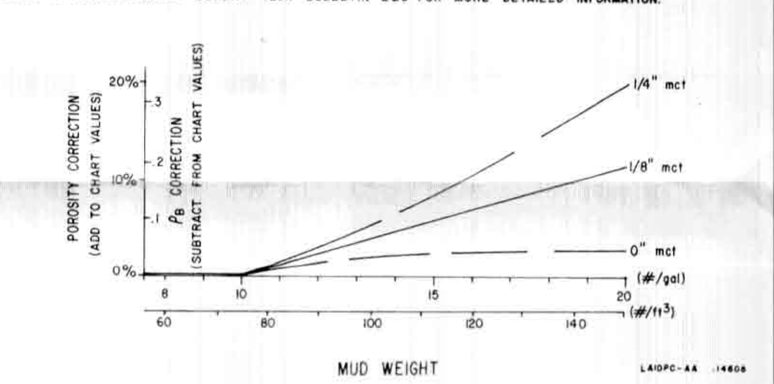
JOHN M. GREATHOUSE
BILL & LEE ROBERTS RANCH INC. # 1
WILDCAT
POLK COUNTY, MISSOURI

T.D. LOGGED 1533'
T.D. DRILLER 1530'
T.D. WELEX 1534'



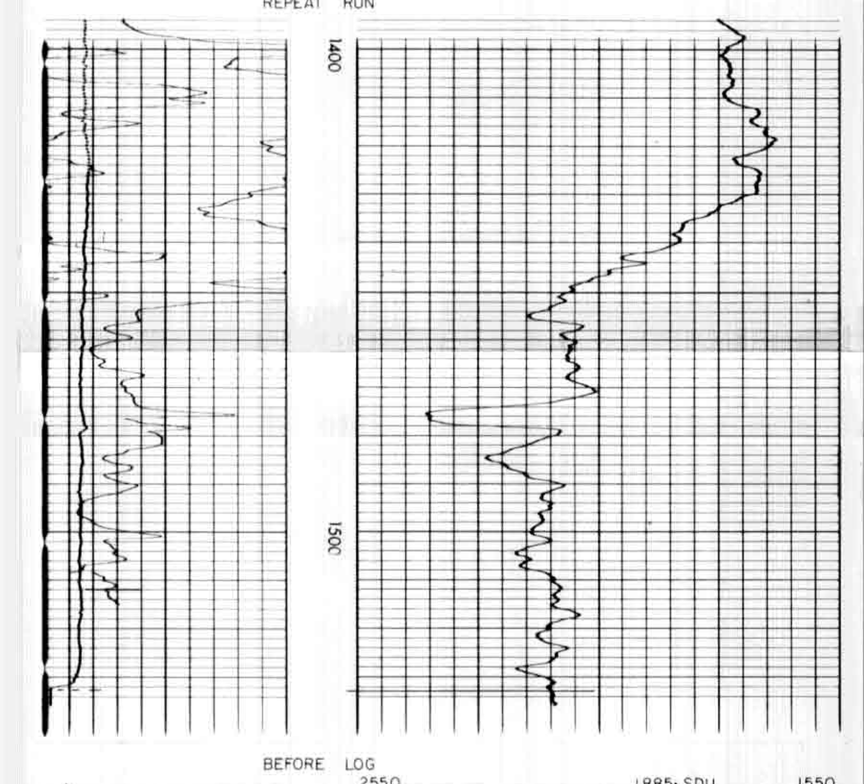
*POROSITY vs ρ_G AND SDU

*BASED ON TOOL RESPONSE WITH 1/8" OF MUDCAKE THICKNESS (mct) ASSOCIATED WITH 8-10#/GAL MUD. APPROXIMATE MUDCAKE EFFECTS FOR OTHER MUDS AND THICKNESSES ARE SHOWN IN THE CHART BELOW. REFER TO WELEX DENSITY LOGGING TECH BULLETIN L26 FOR MORE DETAILED INFORMATION.

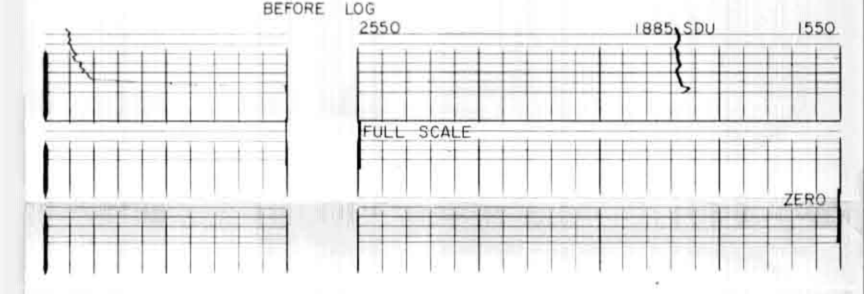
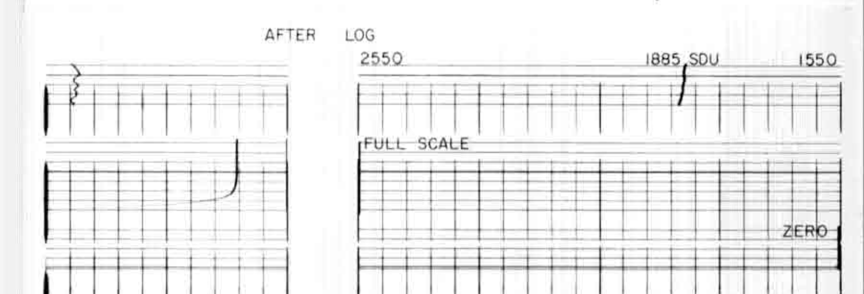


LAIOPC-AA .14608

REPEAT RUN



BEFORE LOG



AFTER LOG