SCHLUMBERGER

GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY	ST. LOUIS
FIELD or LOCATION	FLORISSANT N/A
WELL	SANDAU #R1-UGS
COMPANY	LACLEDE GAS CO.

COMPANY: LACLEDE GAS COMPANY
WELL: SANDAU #R1-UGS
FIELD: FLORISSANT
COUNTY: ST. LOUIS STATE: MISSOURI
Location: N/A Other Services: NONE
Sec. ___ Twp. ___ Rge. ___

Permanent Datum: GROUND LEVEL ; Elev.: 550.5
Log Measured From KB 12.5 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 563, D.F. 561, G.L. 550.5

Date	7-3-63
Run No.	ONE
Type Log	GRN
Depth—Driller	1908
Depth—Logger	1907
Bottom logged interval	1907
Top logged interval	100
Type fluid in hole	GAS
Salinity, PPM Cl.	--
Density	--
Level	FULL
Max rec. temp., deg F.	--
Operating rig time	120 MINS.
Recorded by	HOLDMAN
Witnessed by	THOMAS & DEBUSK

RUN	BORE-HOLE RECORD			CASING RECORD			
No.	Bit	From	To	Size	Wgt.	From	To
ONE	24	0	112	16	-	0	112
	13 3/4	112	1107	10 3/4	-	0	1107
	9 7/8	1107	1505	7 5/8	-	0	1505
	6 3/4	1505	1908	5 1/2	-	0	1868
				2 3/8	-	0	1906.5

FOLD HERE — THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

Gamma Ray	
Run No.	ONE
Tool Model No.	GNT-J
Diameter	1 11/16"
Det'r Model No.	SGD-H
Type	SCINT.
Length	8"
Dist. to N. Source	100 1/4"

General	
Hoist Truck No.	
Inst. Truck No.	2927
Tool Serial No.	SEE REMARKS
Location	LINCOLN

Neutron	
Run No.	ONE
Log Type	N-G+N-N THERM (COMBINATION)
Tool Model No.	GNT-J
Diameter	1 11/16"
Det'r Model No.	NLD-K
Type	GM
Length	6"
Source Model No.	NLS-L
Serial No.	M-886
Spacing	16" C-C
Type	PU BE
Strength	9 X 10^6

LOGGING DATA

Run No.	Depths From	Depths To	Speed Ft/Min.	T.C. Sec.	GR Sens. Settings	GR Zero Div. L or R	API G.R. Units per Log Div.	N T.C. Sec.	N Sens. Settings	N Zero Div. L or R	API N. Units per Log Div.
ONE	100	1907	30	2	150	2L	6	2	600	9L	120

Reference Literature:

Remarks: GNT-J CONSISTING OF GNH-J-5, GNC-J-7, SDC-A-24, SGD-H-37, NLD-K-8, NLS-L-59, CCL-T-11

GAMMA RAY (API UNITS) 12 — 72; 72 — 132 | DEPTHS | NEUTRON (API UNITS) 1080 — 2280 — 3480
COLLARS RECORDED 13'3" DEEP

GAMMA RAY (API UNITS) | DEPTHS | NEUTRON (API UNITS)

COMPANY LACLEDE GAS COMPANY
WELL SANDAU #R1-UGS
FIELD FLORISSANT
COUNTY ST. LOUIS STATE MISSOURI
Rm ___ @ ___ F; Rmf ___ @ ___ F; Rmc ___ @ ___ F; BHT ___ F
SWSC FR 1907; SWSC TD 1907; DRLR TD 1908
Elev: KB 563, DF 561, GL 550.5

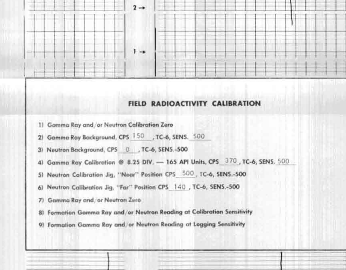
RADIOACTIVITY CALIBRATION DATA

SCHLUMBERGER LOCATION NEUTRON CALIBRATION

SENS = 500 TC = 6 SEC GNT-J LINCOLN
DATE JUNE 17, 1963
EQUIPT SERIAL NOS: GNC - J-7 . SGD - H-37 .
NDH - - . NLD - K-8 . NLS - L-24 . NCT - B-66 . T.S. #

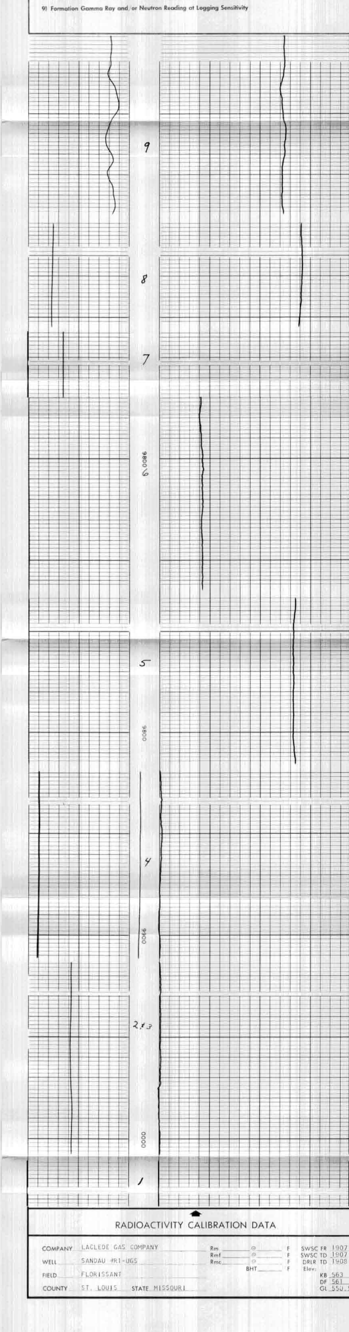
1) Mechanical and Electrical Zero
2) NCT-B Calibrating Tank 515 CPS
3) Water Tank 150 CPS
4) Background in Air 4 CPS
5) Mechanical and Electrical Zero
6) Calibration Jig "Close" Position 515 CPS
7) Calibration Jig "Far" Position 150 CPS
8) Background in Air 4 CPS
9) Mechanical and Electrical Zero

CAL. TANK TEMPERATURE 78° F.
WATER TANK TEMPERATURE 75° F.



FIELD RADIOACTIVITY CALIBRATION

1) Gamma Ray and/or Neutron Calibration Zero
2) Gamma Ray Background, CPS 150, TC-6, SENS. 500
3) Neutron Background, CPS 0, TC-6, SENS.-500
4) Gamma Ray Calibration @ 8.25 DIV. — 165 API Units, CPS 370, TC-6, SENS. 500
5) Neutron Calibration Jig, "Near" Position CPS 500, TC-6, SENS.-500
6) Neutron Calibration Jig, "Far" Position CPS 140, TC-6, SENS.-500
7) Gamma Ray and/or Neutron Zero
8) Formation Gamma Ray and/or Neutron Reading at Calibration Sensitivity
9) Formation Gamma Ray and/or Neutron Reading at Logging Sensitivity



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