SCHLUMBERGER

GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY ST. LOUIS
FIELD or LOCATION FLORISSANT N/A
WELL RANDOLL #3 UGS
COMPANY LACLEDE GAS CO.

COMPANY LACLEDE GAS COMPANY
WELL RANDOLL #3 UGS
FIELD FLORISSANT
COUNTY ST. LOUIS STATE MISSOURI
Location: N/A
Sec. ___ Twp. ___ Rge. ___
Other Services: NONE

Permanent Datum: GROUND LEVEL ; Elev.: 556
Log Measured From KB , 9 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 565 D.F. ___ G.L. 556

Date	11-3-62
Run No.	ONE
Type Log	GRN
Depth—Driller	1462
Depth—Logger	1458
Bottom logged interval	1458
Top logged interval	20
Type fluid in hole	GAS
Salinity, PPM Cl.	- -
Density	- -
Level	- -
Max rec. temp., deg F.	70
Operating rig time	2 HRS.
Recorded by	VOGEL
Witnessed by	THOMAS

RUN	BORE-HOLE RECORD			CASING RECORD			
No.	Bit	From	To	Size	Wgt.	From	To
ONE	6 1/8	1440	1462	2 3/8	-	SURF.	1440
				7	-	SURF.	1460

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THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

Gamma Ray		Neutron	
Run No.	ONE	Run No.	ONE
Tool Model No.	GNT-J	Log Type	N-G+N-N THERM (COMBINATION)
Diameter	1 11/16"	Tool Model No.	GNT-J
Det'r Model No.	SGD-H	Diameter	1 11/16"
Type	SCINT.	Det'r Model No.	NLD-K
Length	8"	Type	GM
Dist. to N. Source	100 1/4"	Length	6"
General		Source Model No.	NLS-L
Hoist Truck No.		Serial No.	M-843
Inst. Truck No.	2950	Spacing	16" C-C
Tool Serial No.	SEE REMARKS	Type	PU BE
Location	LINCOLN	Strength	9 X 10^6

LOGGING DATA

General				Gamma Ray					Neutron			
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	API N. Units per Log Div.
ONE	20	T.D.	30	2	150	0	6	2	600	12L	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-24, CCL-T-11

GAMMA RAY
API UNITS
0 — 60
60 — 120

DEPTHS

NEUTRON
API UNITS
1440 — 2640 — 3840

0 — 60
60 — 120

GAMMA RAY
API UNITS

DEPTHS

NEUTRON
API UNITS
1440 — 2640 — 3840

COMPANY LACLEDE GAS CO. Rm ___ @ ___ °F SWSC FR 1458
WELL RANDOLL #3 UGS Rmf ___ @ ___ °F SWSC TD 1458
FIELD FLORISSANT Rmc ___ @ ___ °F DRLR TD 1462
COUNTY ST. LOUIS STATE MISSOURI BHT ___ °F Elev: KB 565 DF ___ GL 556

RADIOACTIVITY CALIBRATION DATA

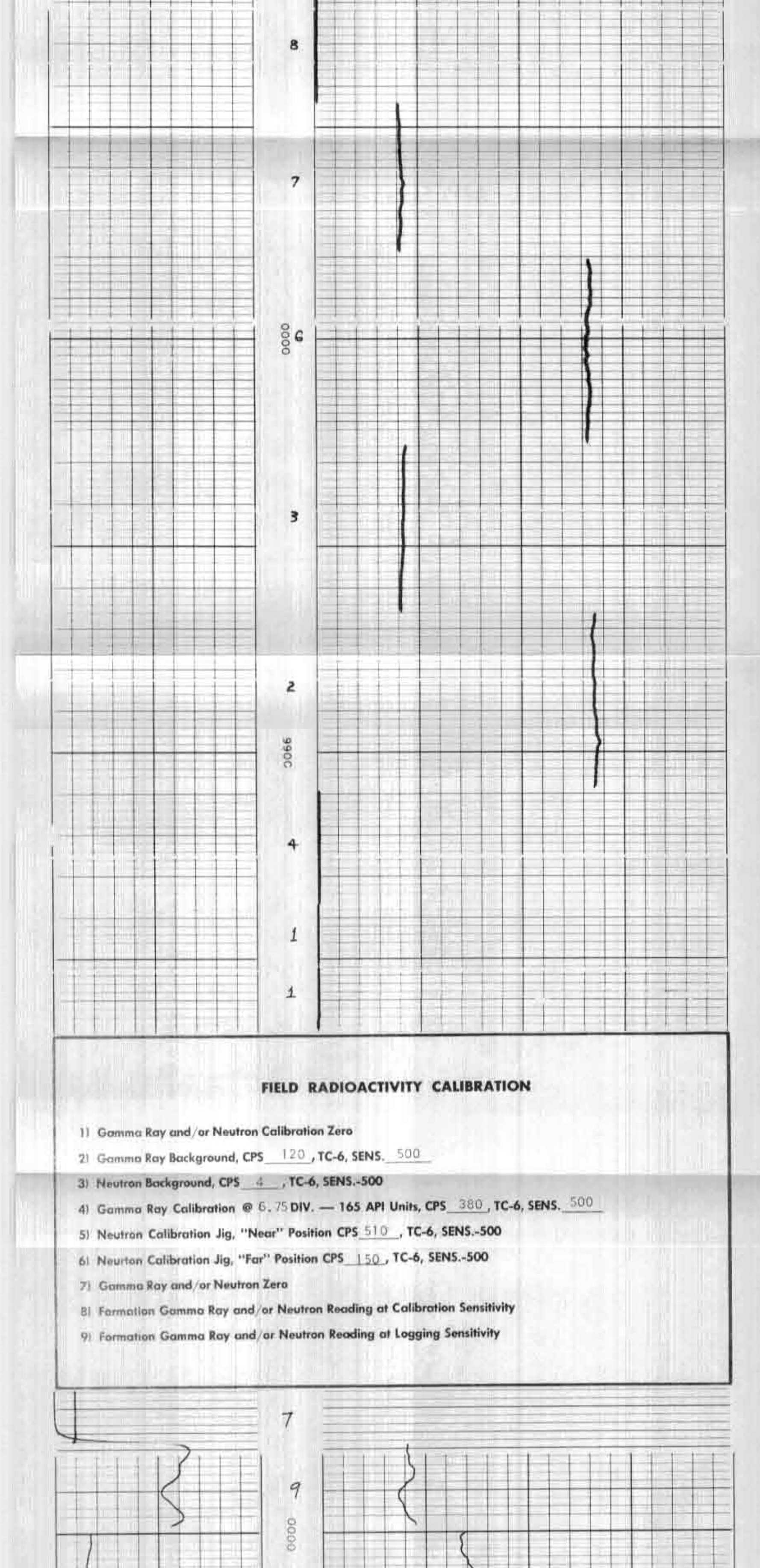
SCHLUMBERGER LOCATION NEUTRON CALIBRATION

SENS = 500 TC = 6 SEC

DATE OCTOBER 11, 1962 MARION

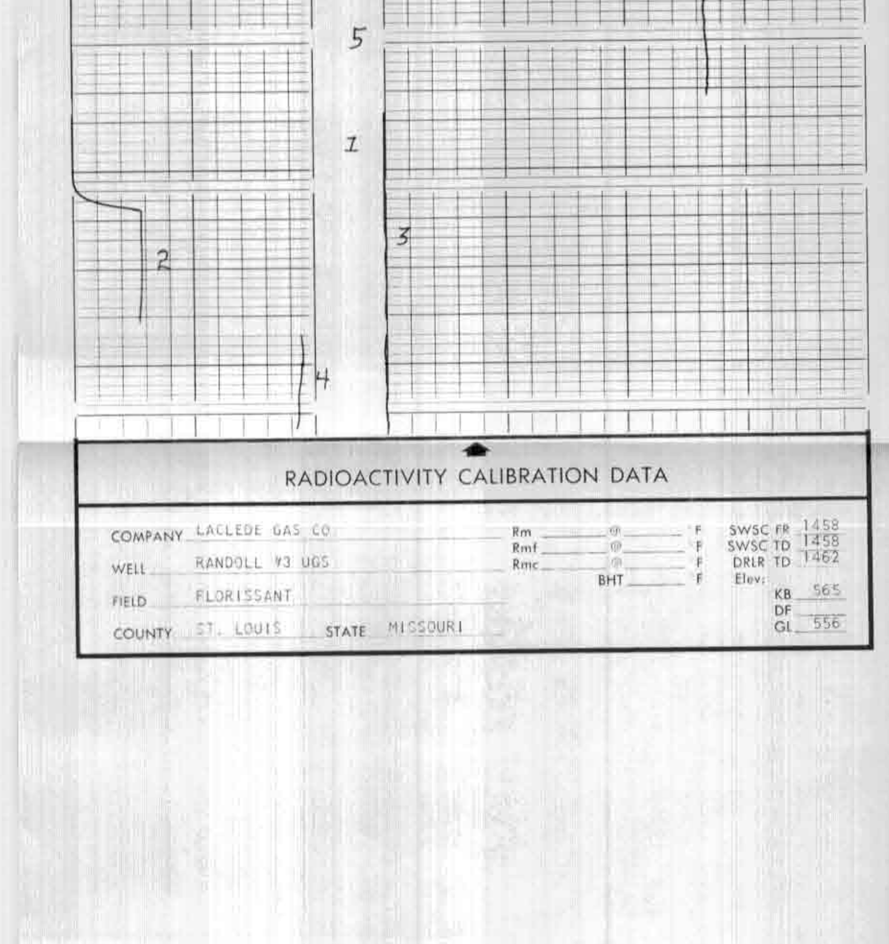
EQUIPT SERIAL NOS: GNC - J- 7 . SGD - H- 37 .
NDH - - . NLD - K- 8 . NLS - L - 24 . NCT - B - 66 . T.S. # .

1) Mechanical and Electrical Zero
2) NCT-B Calibrating Tank 495 CPS
3) Water Tank 155 CPS
4) Background in Air 4 CPS
5) Mechanical and Electrical Zero
6) Calibration Jig "Close" Position 495 CPS
7) Calibration Jig "Far" Position 155 CPS
8) Background in Air 4 CPS
9) Mechanical and Electrical Zero



FIELD RADIOACTIVITY CALIBRATION

1) Gamma Ray and/or Neutron Calibration Zero
2) Gamma Ray Background, CPS 120 , TC-6, SENS. 500
3) Neutron Background, CPS 4 , TC-6, SENS.-500
4) Gamma Ray Calibration @ 6.75 DIV. — 165 API Units, CPS 380 , TC-6, SENS. 500
5) Neutron Calibration Jig, "Near" Position CPS 510 , TC-6, SENS.-500
6) Neurton Calibration Jig, "Far" Position CPS 150 , 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



RADIOACTIVITY CALIBRATION DATA

COMPANY LACLEDE GAS CO Rm ___ @ ___ F SWSC FR 1458
WELL RANDOLL #3 UGS Rmf ___ @ ___ F SWSC TD 1458
FIELD FLORISSANT Rmc ___ @ ___ F DRLR TD 1462
COUNTY ST. LOUIS STATE MISSOURI BHT ___ F Elev: KB 565 DF ___ GL 556