189-00146

SCHLUMBERGER GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COMPANY LACLEDE GAS COMPANY
WELL MISSOURI PORTLAND CEMENT CO. #R-1 UGS
FIELD FLORISSANT
COUNTY ST. LOUIS STATE MISSOURI
Location: N/A
Sec. ___ Twp. ___ Rge. ___
Other Services: CBL

COUNTY ST. LOUIS
FIELD or LOCATION FLORISSANT N/A
WELL MO. PORTLAND CEM. RIUGS
COMPANY LACLEDE GAS CO.

Permanent Datum: GROUND LEVEL ; Elev.: 439.44
Log Measured From KB , 9 Ft. Above Perm. Datum
Drilling Measured From ___
Elev.: K.B. 448.02 D.F. ___ G.L. 439.44

Date	1-4-63
Run No.	TWO
Type Log	GRN
Depth—Driller	2209
Depth—Logger	2204
Bottom logged interval	2204
Top logged interval	100
Type fluid in hole	WATER
Salinity, PPM Cl.	--
Density	--
Level	FULL
Max rec. temp., deg F.	--
Operating rig time	2 HRS.
Recorded by	VOGEL
Witnessed by	THOMAS

BORE-HOLE RECORD				CASING RECORD			
Run No.	Bit	From	To	Size	Wgt.	From	To
TWO	7 7/8	1230	2209	8 3/8	28	0	1230
				5 1/2	14	0	2209

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THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

Gamma Ray		Neutron	
Run No.	TWO	Run No.	TWO
Tool Model No.	GNT-G	Log Type	N-G+N-N THERM (COMBINATION)
Diameter	3 7/8"	Tool Model No.	GNT-G
Det'r Model No.	SGD-F	Diameter	3 7/8"
Type	SCINT.	Det'r Model No.	NLD-E
Length	8"	Type	GM
Dist. to N. Source	88 3/4"	Length	6"
General		Source Model No.	NLS-C
Hoist Truck No.		Serial No.	M-1000
Inst. Truck No.	2937	Spacing	19.5" C-C
Tool Serial No.	SEE REMARKS	Type	PU BE
Location	LINCOLN	Strength	10^7 N/SEC.

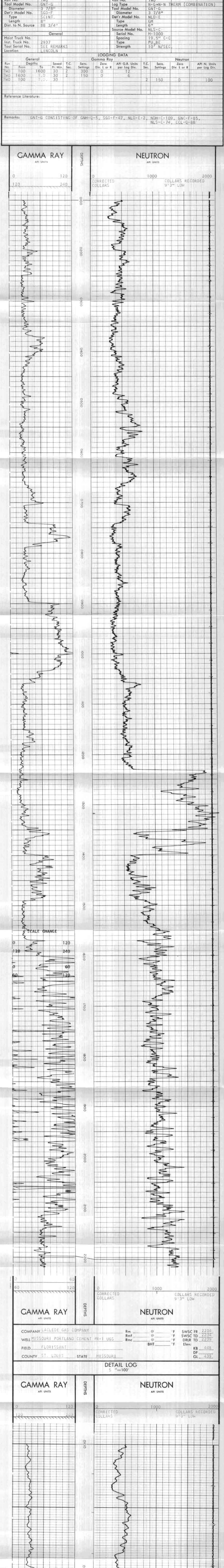
LOGGING DATA

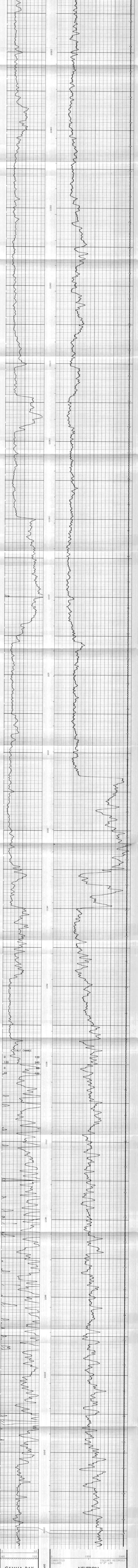
General				Gamma Ray				Neutron			
Run No.	Depths From	Depths To	Speed Ft/Min.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API N. Units per Log Div.
TWO	100	1600	30	2	300	0	12				
TWO	1600	T.D.	30	2	150	0	6				
TWO	100	T.D.	30					2	150	0	100

Reference Literature:

Remarks: GNT-G CONSISTING OF GNH-Q-5, SGD-F-47, NLD-E-2, NDH-C-109, GNC-F-85, NLS-C-74, CCL-Q-88

GAMMA RAY API UNITS	DEPTHS	NEUTRON API UNITS
0 — 120		0 — 1000 — 2000
120 — 240		CORRECTED COLLARS / COLLARS RECORDED 9'3" LOW





GAMMA RAY API UNITS	DEPTHS	NEUTRON API UNITS
0 — 60		0 — 1000 — 2000
60 — 120		CORRECTED COLLARS / COLLARS RECORDED 9'3" LOW

COMPANY LACLEDE GAS COMPANY
WELL MISSOURI PORTLAND CEMENT #R-1 UGS
FIELD FLORISSANT
COUNTY ST. LOUIS STATE MISSOURI
Rm ___ @ ___ °F
Rmf ___ @ ___ °F
Rmc ___ @ ___ °F
BHT ___ °F
SWSC FR 2204
SWSC TD 2204
DRLR TD 2209
Elev.: KB 448 DF ___ GL 439

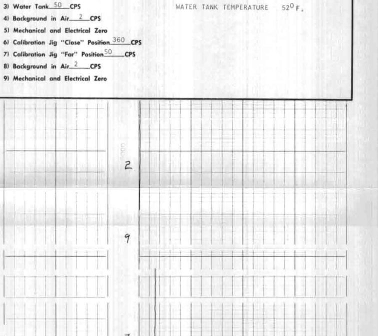
RADIOACTIVITY CALIBRATION DATA

SCHLUMBERGER LOCATION NEUTRON CALIBRATION

SENS = 300 TC = 6 SEC
DATE DECEMBER 15, 1962
LINCOLN 19.5" SPACING
EQUIPT SERIAL NOS: GNC - F- 85 . SGD F -47 .
NDH - C -109 . NLD - E-2 . NLS - C - 74 . NCT - B -66 . T.S. #56 .

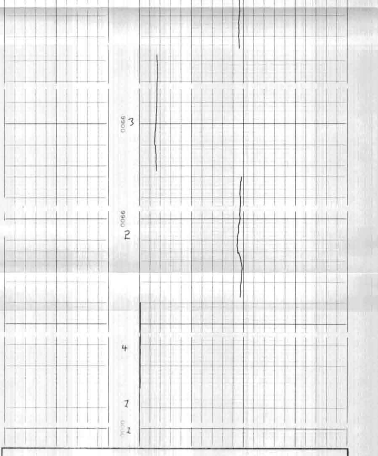
1) Mechanical and Electrical Zero
2) NCT-B Calibrating Tank 360 CPS
3) Water Tank 50 CPS
4) Background in Air 2 CPS
5) Mechanical and Electrical Zero
6) Calibration Jig "Close" Position 360 CPS
7) Calibration Jig "Far" Position 50 CPS
8) Background in Air 2 CPS
9) Mechanical and Electrical Zero

CAL. TANK TEMPERATURE 65° F.
WATER TANK TEMPERATURE 52° F.



FIELD RADIOACTIVITY CALIBRATION

1) Gamma Ray and/or Neutron Calibration Zero
2) Gamma Ray Background, CPS 200 , TC-6, SENS. 500
3) Neutron Background, CPS 4 , TC-6, SENS.-500
4) Gamma Ray Calibration @ 8.25 DIV. — 165 API Units, CPS 530 , TC-6, SENS. 500
5) Neutron Calibration Jig, "Near" Position CPS 365 , TC-6, SENS.-500
6) Neurton Calibration Jig, "Far" Position CPS 52 , 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 COMPANY
WELL MISSOURI PORTLAND CEMENT #R-1 UGS
FIELD FLORISSANT
COUNTY ST. LOUIS STATE MISSOURI
Rm ___ @ ___ °F
Rmf ___ @ ___ °F
Rmc ___ @ ___ °F
BHT ___ °F
SWSC FR 2204
SWSC TD 2204
DRLR TD 2209
Elev.: KB 448 DF ___ GL 439