[redacted]

2

1

6

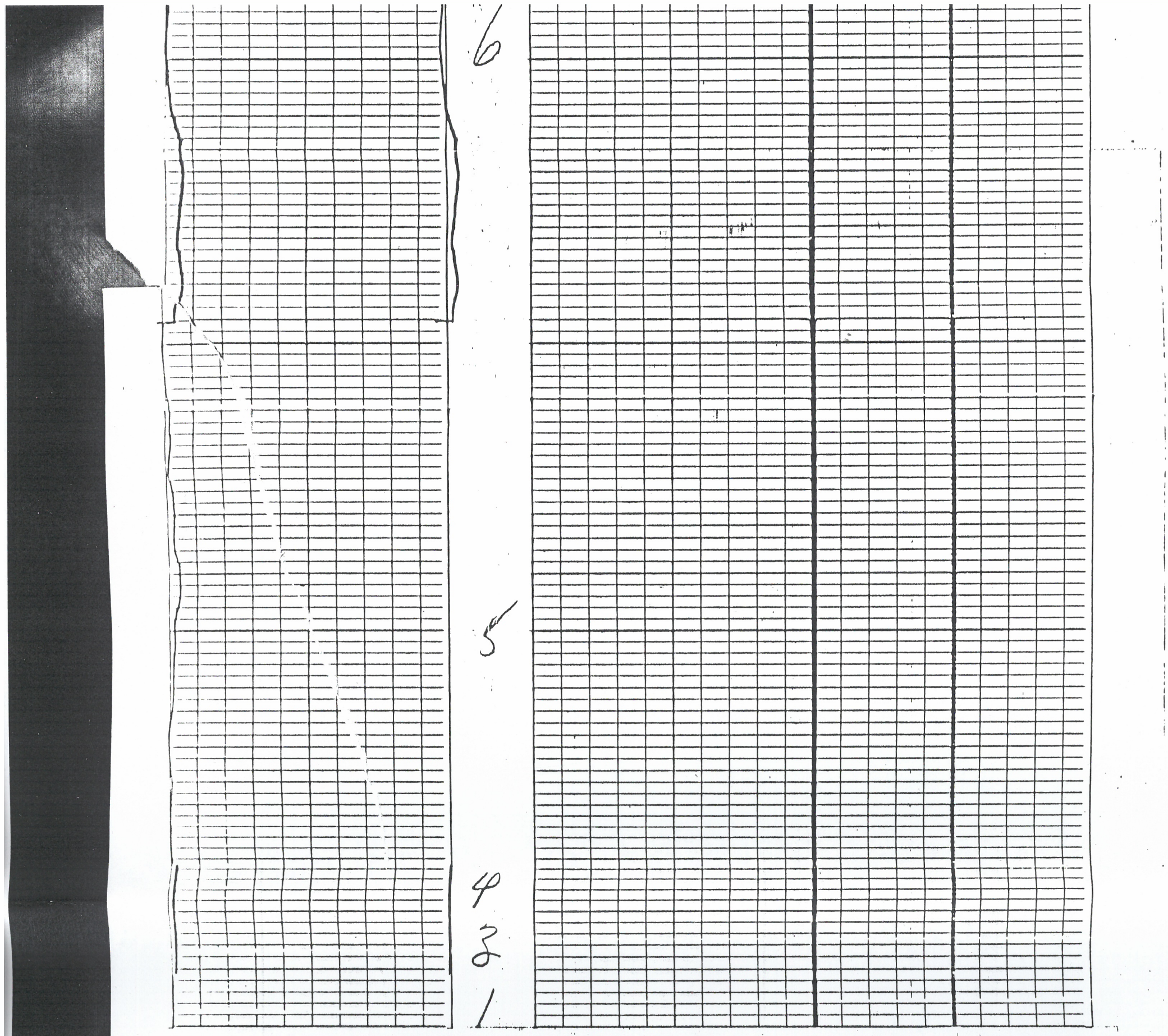
5

4

3

1

6 Damaged connection



COMPENSATED NEUTRON CALIBRATION CODING

PANEL TEST

1. MECHANICAL ZERO
2. RECORDED SENSITIVITY (THRU MEMORIZER IF USED

	RATIO	OH POROSITY			CH POROSITY	
		LS ■	SS □	DOL □	SS □	LS □
3.	1	1.6	4.9	−0.2	2.4	0.1
4.	2	15.6	19.7	8.1	13.0	9.0
5.	3	30.5	36.0	25.2	29.1	24.1
6.	4	45.4	53.1	47.5	47.4	43.2

7. POROSITY NORMALIZED WITH CNB-A IN PLACE
   7A. TOOL IN NCT-B
8. LOG POSITION WITH CNB-A IN PLACE
   8A. LOG POSITION WITH TOOL IN NCT-B

OH			CH	
LS	SS	DOL	SS	LS
18	22.2	10.4	15.3	11.2

$$\text{RATIO (NORMALIZED)} = \frac{2.17}{\text{RATIO (NCT-B)}} \quad \text{RATIO LOG}$$

FORMATION DENSITY COMPENSATED CALIBRATION CODING

1. MECHANICAL ZERO
2. RECORDER SENSITIVITY

PANEL TEST

		FDC LIQUID	
	POS	ρ	$\Delta\rho$
3.	# 1	2.92	.00
4.	# 2	2.78	+.14
6.	# 3	2.42	−.10
6.	# 4	2.35	.00
7.	# 5	2.08	.01

8. MECHANICAL ZERO CALIPER
9. 8" RING
10. 12" RING
11. TOOL CALIBRATE #1 SET $\rho = 2.50$
12. TOOL CALIBRATE #2 SET $\Delta\rho = .00$
13. LOG POSITION $\rho = 2.59$, $\Delta\rho = .015$

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATE - SOURCE IN PLACE

	POS	ρ	Δρ
3.	# 1	2.92	.00
4.	# 2	2.78	+.14
6.	# 3	2.42	−.10
6.	# 4	2.35	.00
7.	# 5	2.08	.01

12. TOOL CALIBRATE #2 SET $\Delta\rho = .00$
13. LOG POSITION $\rho = 2.59$, $\Delta\rho = .015$

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MEMORIZER ADJUSTMENT
5. BACKGROUND
6. CALIBRATE - SOURCE IN PLACE

No. 1

Log Analysis

Schlumberger

COMPANY: GAS PRODUCING ENTERPRISES
WELL: SCOTT #1
FIELD: CHRISTABELLE
COUNTY: KEARNY
STATE: KANSAS

DEPTH			m/n	R_w		R_t			ϕ_D	ϕ_N	% POROSITY	% WATER	REMARKS
Krider													
2657-59			2.0	.04		5			11	13	12	76	
61-63			"	"		5			7	13	10	89	
63-65			"	"		4.8			10	16	13	70	
65-69			"	.1		6			13	16	14	58	
69-71			"	"		6			12	12	12	68	
71-74			"	"		5.7			12	14	13	64	
Council Grove													
3252-57			2.0	.04		3			13	16	14.5	80	
3473-76			1.1	.06		6			11	13	12	68	
3572-76			"	"		1.7			13	27	20	89	
3601-03			"	"		6.5			8	16	12	80	

65-69		"	"		6			13	16	14	58	
69-71		"	"		6			12	12	12	68	
71-74		"	"		5.7			12	14	13	64	
Round Grove												
3352-57		20	04		3			13	16	14.5	80	
3473-76		"	06		6			11	13	12	68	
3572-76		"	"		1.7			13	27	20	89	
3601-03		"	"		6.5			8	16	12	80	
3612-14		"	"		5.5			12	14	13	80	
3624-32		"	"		3			13	19	16	88	
3647-50		"	"		4			20	24	22	56	
3680-82		"	"		5			13	16	14.5	76	
3708-12		"	"		5			12	16	13.5	81	
3724-30		"	"		3			14	17	15.5	91	
3760-64		"	"		6			14	18	16	63	
3864-66		"	"		6.5			10	14	12	80	
3815-20		"	"		5.5			11	14	12.6	84	
3822-26		"	"		4			12	14	13	94	
3882-90		"	"		2.2			14	18	16	86	
Tinsley												
3950-52		20	06		6.2			12	13	12.5	79	
3985-90		"	"		2.2			18	26	22	75	
4038-40		"	"		2.8			22	27	24.5	77	
4068-72		"	"		4			21	24	22.5	70	
4104-20		"	"		12			28	31	29.5	81	salt/fw water
4172-76		"	"		11			11	13	12	77	
Vernon												
4210-12		20	10		22			14	14	14	48	salt/fw water
14-18		"	"		18			18	19	18.5	40	
20-24		"	"		19			14	15	14.5	50	
4226-28		"	"		35			26	28	27	20	
4300-04		"	"		8			15	20	17.5	64	
4318-24		"	"		8			17	19	18	62	
4403-06		"	06		20			7	7	7	78	
06-08		"	"		18			10	10	10	58	poss show
4419-22		"	"		8			23	24	23.5	37	
Marmaton												
4481-88		20	06		13			14	18	16	42	poss show
88-92		"	"		8			18	22	20	43	
4562-65		"	"		4.8			15	15	15	75	
Cherokee												
4695-99		20	04		6			5	15	10	82	SH/F
4734-36		"	"		30			7	6	6.5	56	poss show
4757-59		"	"		16			8	8	8	63	
71-73		"	"		17			10	10	10	49	
Miss												
4880-82		2	06		11			8	5	6.5	92	
4896-02		"	"		25			5	5	5	98	

#562-65		"	"		4.8			15	15	15	75		
Cherokee													
#695-99		20	OH		6			5	15	10	82	SH 1V	
#734-36		"	"		30			7	6	6.5	56		4 pors 1 show
#737-39		"	"		16			8	8	8	63		
71-73		"	"		17			10	10	10	49		
#785													
#780-82		2	OH		11			8	5	6.5	92		
4876-82		"	"		25			5	5	5	98		

All interpretations are opinions based on inferences from electrical and other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

DATE	LOCATION	ENGINEER
5-5-80	LIBERAL	M. J. Reisinger

AWS-1328-E

SCOTT #1
Kearny County, KS
N.W. Nunn Prospect

8 5/8" @ 567'