Schlumberger

RADIOACTIVE TRACER SURVEY LOG

COMPANY	LACLEDE GAS COMPANY
WELL	JONES #7 OIL WELL
FIELD	FLORISSANT
COUNTY	ST. LOUIS
STATE	MISSOURI
LOCATION	NA
API SERIAL NO.	NA
Permanent Datum	GL
Log Measured From	GL
Drilling Measured From	-
Date	NOV 13,1992
Run No.	3
Depth Driller	1057.0 F
Depth Logger (Schl.)	1056.0 F
Btm. Log Interval	1056.0 F
Top Log Interval	800.0 F
Type Fluid in Hole	WATER
Salinity NaCl	
Density	8.30 LB/G
Fluid Level	
Max. Rec. Temp.	72.0 DEGF
Deviation	
Logger on Bottom	See Log
Equip. / Location	8245 / Mt. Pleasant, MI
Recorded By	BILL MILLIGAN
Witnessed By	MR ROB GLOSIER

BOREHOLE RECORD

CASING & TUBING RECORD

Size	5.5	2 3/8
Weight		
Casing Top-Driller	0.0 F	
Casing Top-Logger		
Casing Shoe-Driller	1057.0 F	1008.0 F
Casing-Logger		

Other Services:

The well name, location and borehole reference data were furnished by the customer.

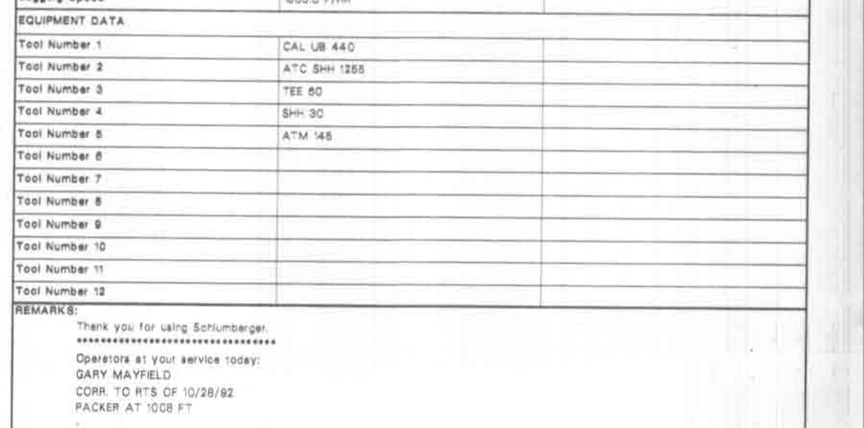
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations 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.

Run No.	3	
Service Order No.	461577	
Logging Speed	1800.0 F/HR	
EQUIPMENT DATA		
Tool Number 1	CAL UB 440	
Tool Number 2	ATC SHH 1258	
Tool Number 3	TEE 60	
Tool Number 4	SHH 30	
Tool Number 5	ATM 148	
Tool Number 6		
Tool Number 7		
Tool Number 8		
Tool Number 9		
Tool Number 10		
Tool Number 11		
Tool Number 12		

REMARKS:

Thank you for using Schlumberger.
****
Operators at your service today:
GARY MAYFIELD
CORR. TO RTS OF 10/28/92
PACKER AT 1008 FT

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 27.4 F.
TOTAL TOOL STRING WEIGHT IS 177. LB IN AIR.

Schlumberger — POST SURVEY GR PASS

CSU Field Log

DATA ACQUIRED LOGGING UP

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

CP 32.6 FILE 6 13-NOV-1992 11:55 (UP)

5"/100'

5"/100'

CP 32.6 FILE 6 13-NOV-1992 11:50 (UP)

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

SENSOR MEASURE POINT TO TOOL ZERO

GR	17.8	FEET	CVEL	0.0	FEET
LEI	14.1	FEET	GRTE	12.3	FEET
GRSG	1.7	FEET	UEI	14.8	FEET
EXP3	0.0	FEET	EXT	0.0	FEET
EXP1	0.0	FEET	EXP2	0.0	FEET
CCL	26.7	FEET	TENS	-5.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
WMUD	8.30000	LB/G	NCJT	GSRE	
FCHD	CSID		PTHR	10.0000	F/MN
NTHR	-10.0000	F/MN	TIRA	.500000	
VPCF	.830000		DEVI	0.0	DEG
FDSH	0.0	G/C3	QIOP	FLOW	
TCSH	0.0	IN	BS	8.00000	IN
RW	.0400000	OHMM	BHS	CASE	

Schlumberger — BOT AT 1017

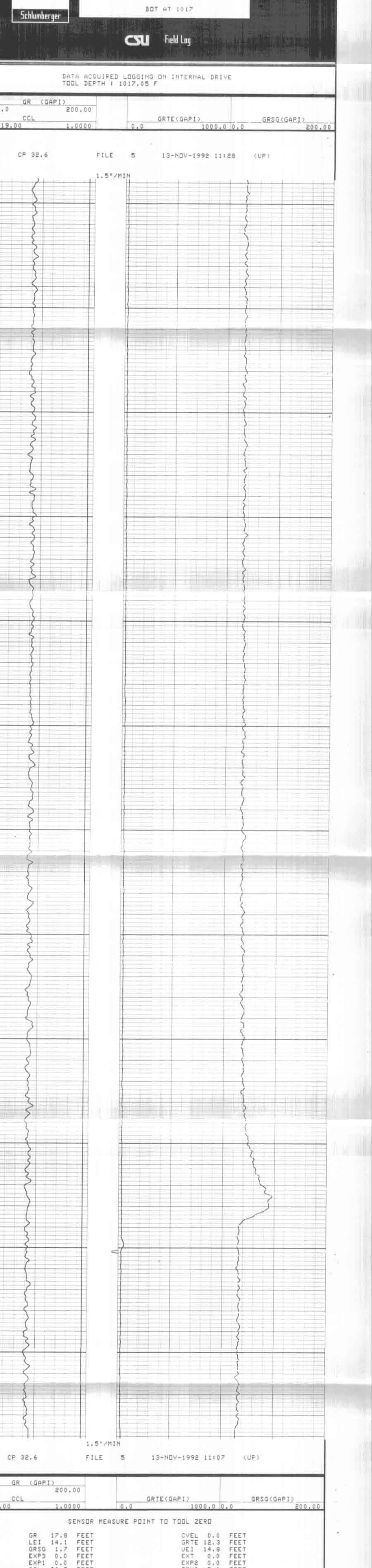
CSU Field Log

DATA ACQUIRED LOGGING ON INTERNAL DRIVE
TOOL DEPTH : 1017.05 F

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

CP 32.6 FILE 5 13-NOV-1992 11:28 (UP)

1.5"/MIN



1.5"/MIN

CP 32.6 FILE 5 13-NOV-1992 11:07 (UP)

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

SENSOR MEASURE POINT TO TOOL ZERO

GR	17.8	FEET	CVEL	0.0	FEET
LEI	14.1	FEET	GRTE	12.3	FEET
GRSG	1.7	FEET	UEI	14.8	FEET
EXP3	0.0	FEET	EXT	0.0	FEET
EXP1	0.0	FEET	EXP2	0.0	FEET
CCL	26.7	FEET	TENS	-5.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SPEE	1800	F/HR	WMUD	8.30000	LB/G
NCJT	GSRE		FCHD	CSID	
PTHR	10.0000	F/MN	NTHR	-10.0000	F/MN
TIRA	.500000		VPCF	.830000	
DEVI	0.0	DEG	FDSH	0.0	G/C3
QIOP	FLOW		TCSH	0.0	IN
BS	8.00000	IN	RW	.0400000	OHMM
BHS	CASE				

Schlumberger — BOT AT 1012

CSU Field Log

DATA ACQUIRED LOGGING ON INTERNAL DRIVE
TOOL DEPTH : 1011.95 F

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

CP 32.6 FILE 4 13-NOV-1992 11:04 (UP)

1.5"/MIN

1.5"/MIN

CP 32.6 FILE 4 13-NOV-1992 10:51 (UP)

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

SENSOR MEASURE POINT TO TOOL ZERO

GR	17.8	FEET	CVEL	0.0	FEET
LEI	14.1	FEET	GRTE	12.3	FEET
GRSG	1.7	FEET	UEI	14.8	FEET
EXP3	0.0	FEET	EXT	0.0	FEET
EXP1	0.0	FEET	EXP2	0.0	FEET
CCL	26.7	FEET	TENS	-5.0	FEET

PARAMETERS

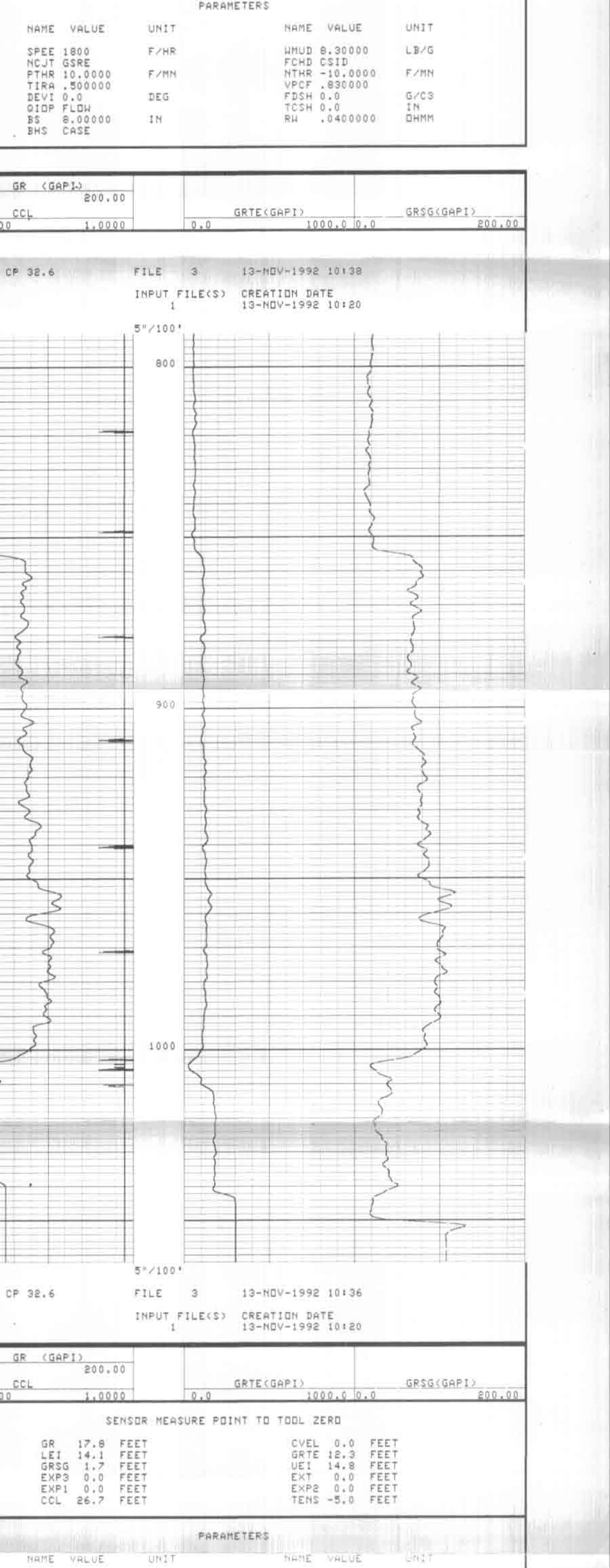
NAME	VALUE	UNIT	NAME	VALUE	UNIT
SPEE	1800	F/HR	WMUD	8.30000	LB/G
NCJT	GSRE		FCHD	CSID	
PTHR	10.0000	F/MN	NTHR	-10.0000	F/MN
TIRA	.500000		VPCF	.830000	
DEVI	0.0	DEG	FDSH	0.0	G/C3
QIOP	FLOW		TCSH	0.0	IN
BS	8.00000	IN	RW	.0400000	OHMM
BHS	CASE				

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

CP 32.6 FILE 3 13-NOV-1992 10:38

INPUT FILE(S) 1 CREATION DATE 13-NOV-1992 10:20

5"/100'



5"/100'

CP 32.6 FILE 3 13-NOV-1992 10:36

INPUT FILE(S) 1 CREATION DATE 13-NOV-1992 10:20

GR (GAPI) 0.0 – 200.00 / CCL -19.00 – 1.0000	GRTE(GAPI) 0.0 – 1000.0	GRSG(GAPI) 0.0 – 200.00

SENSOR MEASURE POINT TO TOOL ZERO

GR	17.8	FEET	CVEL	0.0	FEET
LEI	14.1	FEET	GRTE	12.3	FEET
GRSG	1.7	FEET	UEI	14.8	FEET
EXP3	0.0	FEET	EXT	0.0	FEET
EXP1	0.0	FEET	EXP2	0.0	FEET
CCL	26.7	FEET	TENS	-5.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PP	NORM		DD	2.00000	F
WMUD	8.30000	LB/G	NCJT	GSRE	
FCHD	CSID		PTHR	10.0000	F/MN
NTHR	-10.0000	F/MN	TIRA	.500000	
VPCF	.830000		DEVI	0.0	DEG
FDSH	0.0	G/C3	QIOP	FLOW	
TCSH	0.0	IN	BS	8.00000	IN
RW	.0400000	OHMM	BHS	CASE	