Birdwell

Density Log

COMPANY U.S. GEOLOGICAL SURVEY
ENGINEERING GEOLOGY BRANCH
WELL B-1
FIELD
COUNTY JOHNSON **STATE** WYOMING

LOCATION:
SEC. 35 **TWP.** 51N **RGE.** 82W

OTHER SERVICES
GR/NL
CAL ES
3-D

PERMANENT DATUM GROUND LEVEL, **ELEV** 4600 EST
LOG MEASURED FROM GL, 0 **ft. above perm. datum**
DRILLING MEASURED FROM GL

ELEVATIONS:
KB.
DF.
GL. 4600 EST

DATE	27 MAY 75		
RUN NO.	1&2	3	
TYPE LOG	FDL	FDL DIRECT	
DEPTH – DRILLER	530	530	
DEPTH – LOGGER	530	530	
BOTTOM LOGGED INTERVAL	427	427	
TOP LOGGED INTERVAL	25	0	
TYPE FLUID IN HOLE	MUD	MUD	
SALINITY PPM CL.			
DENSITY LB./GAL.			
LEVEL	FULL	FULL	
MAX. REC. TEMP. – DEG. F	76	76	
OPERATING RIG TIME	1-1/2 HOURS TOTAL TIME		
RECORDED BY	MCGEE	MCGEE	
WITNESSED BY	OLSEN	OLSEN	
LOCATION	CLIFTON	CLIFTON	

RUN NO.	**BORE HOLE RECORD**			**CASING RECORD**			
	BIT	**FROM**	**TO**	**SIZE**	**WGT.**	**FROM**	**TO**
1		0	25'	4"	I.D.	0	25'
	2.99"	25'	430'				

88C-847-C

GAMMA-GAMMA EQUIPMENT DATA

RUN NO.	1		
TOOL MODEL NO.	LACD-8001		
TOOL SERIAL NO.			
DIAMETER	2-1/4"		
SUB	BA		
DETECT. MODEL NO.	9371 TN		

TOOL SPACING	19"		
SOURCE NO.	M-850 CS-137 400MC		
DIRECT ZERO LOC.	0		
DISTANCE D OR D'	4-1/2"		
NOMINAL HOLE DIAM.	3"		
TRUCK NO.	2346		

GAMMA-GAMMA LOGGING DATA

RUN NO.	**DEPTHS**		**SPEED FT./MIN.**	**TC SEC.**	**CPM FULL SCALE**	**DIRECT CPM /DIV.**	**LINEAR GMS./DIV.**
	FROM	**TO**					
1	427'	25'	20	3	20X10^4		.05
2	427'	25'	20	3	20X10^4		.05
3	427'	[illegible]	20	3	20X10^4	[illegible]	

PRIMARY REFERENCE	M-43K	204-10K
EQUIVALENT DEN. G/CC	1.695	2.655
SECONDARY REF.		
EQUIVALENT DEN. G/CC		
KCPM BEFORE LOG		
KCPM AFTER LOG		
RECORDER CAL. REF.	10K	25K
EQUIVALENT DEN. G/CC	2.655	22.65

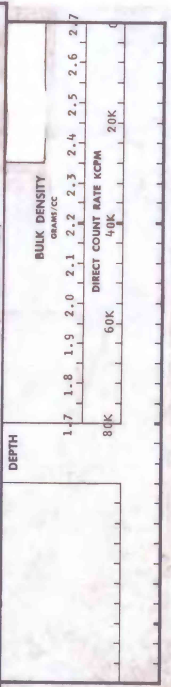
REMARKS: THIS WORK WAS PERFORMED UNDER UNITED STATES ATOMIC ENERGY COMMISSION BY-PRODUCT MATERIAL LICENSE NO. 35-5651-1

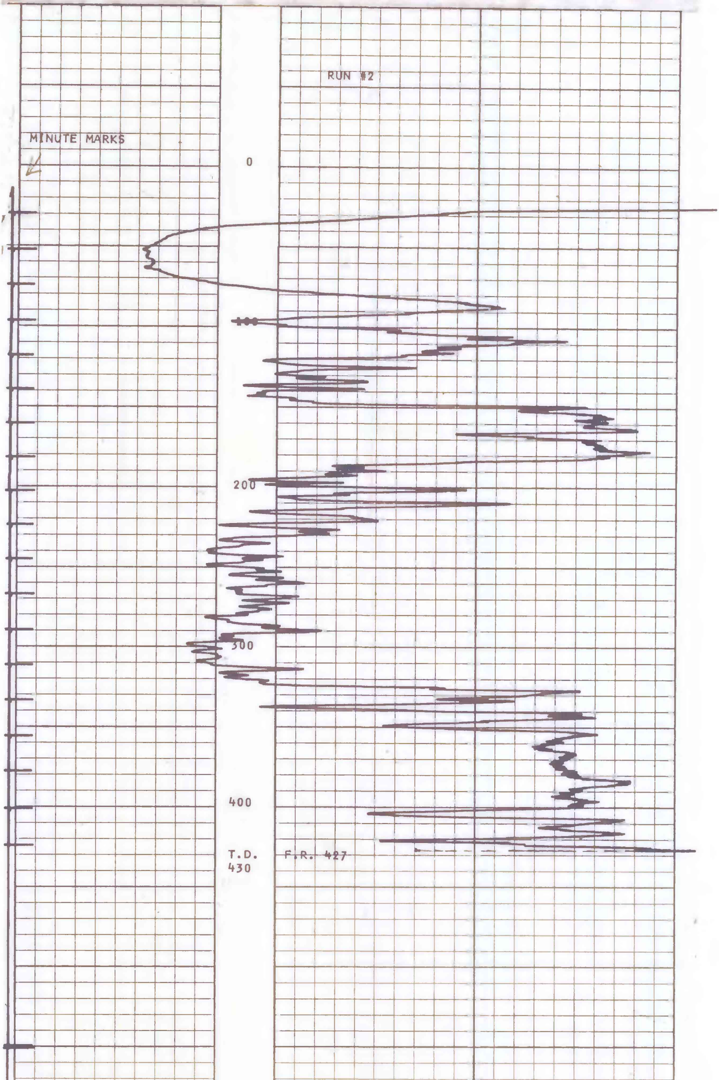
GRAIN DENSITY GMS/CC:
FLUID DENSITY GMS/CC:

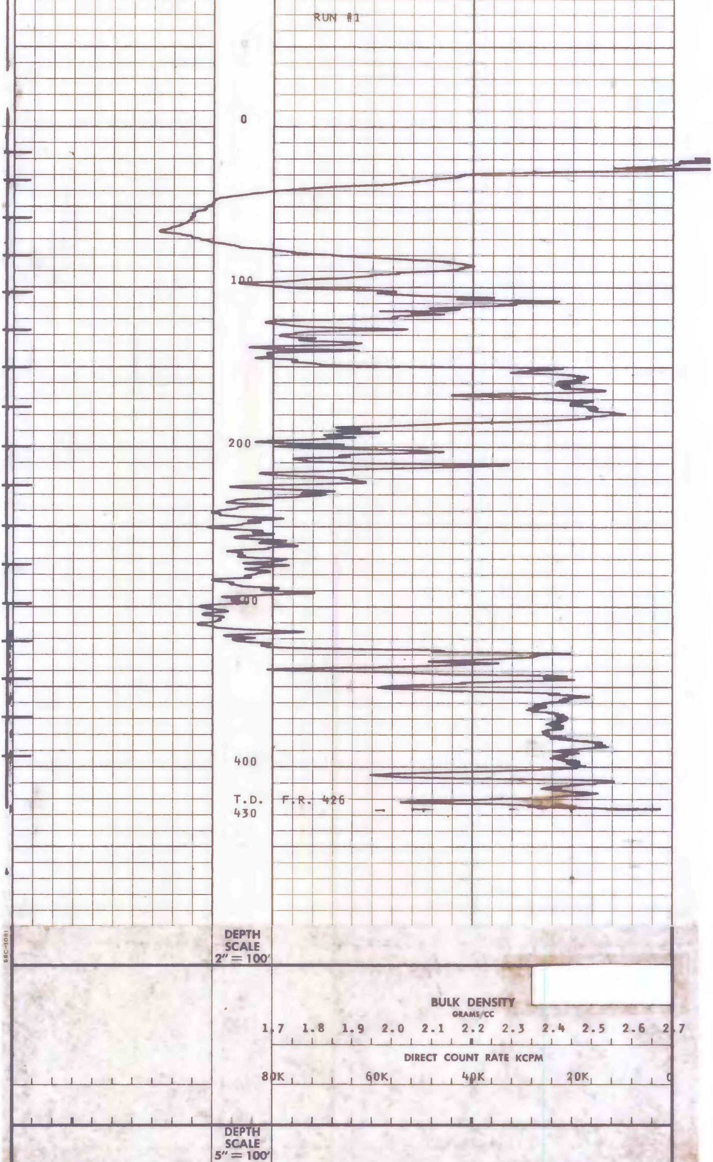
NA: INFORMATION NOT AVAILABLE

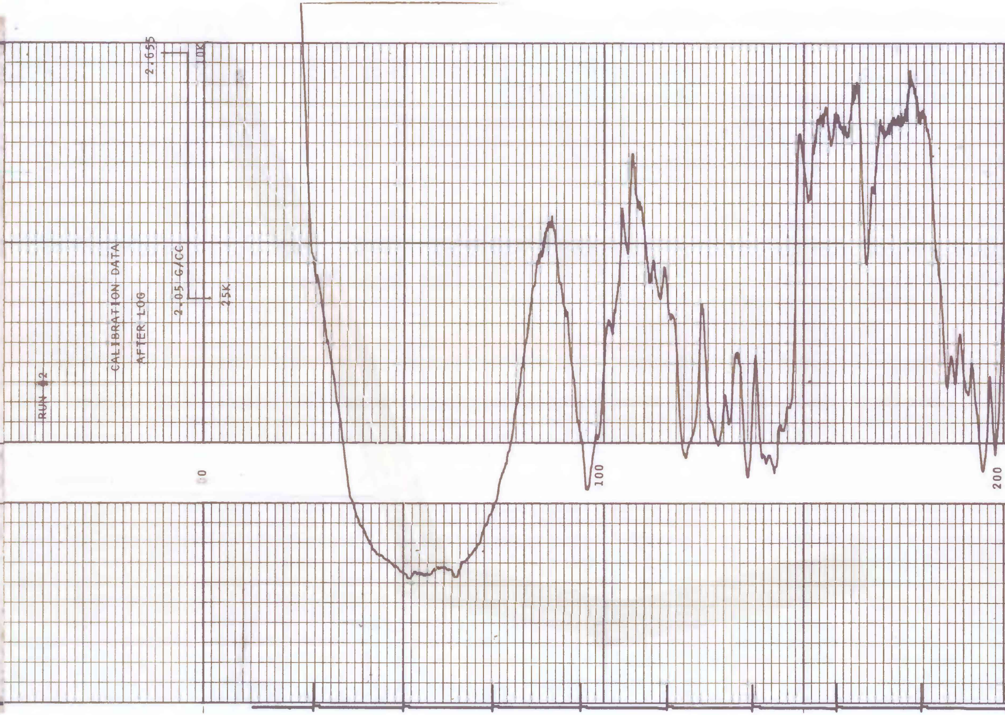
SHOW RUN #1&2, DELETE RUN #3

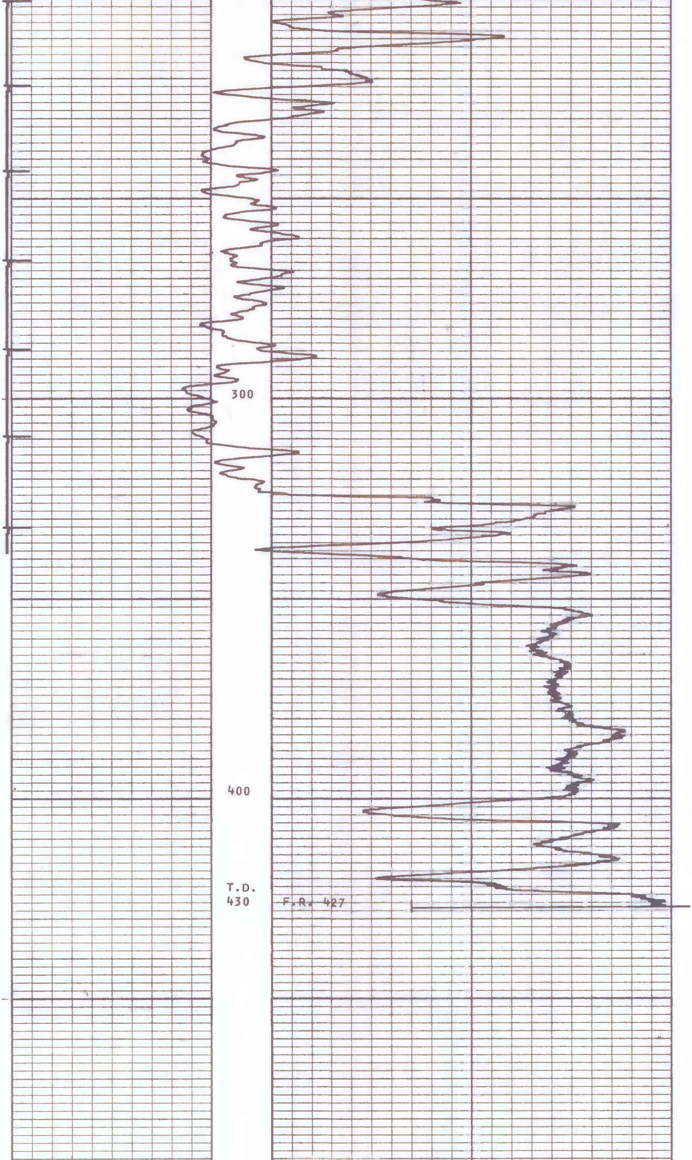
NOTE: RECORDED BULK DENSITY MUST BE CORRECTED FOR STANDOFF (PROXIMITY INDEX)

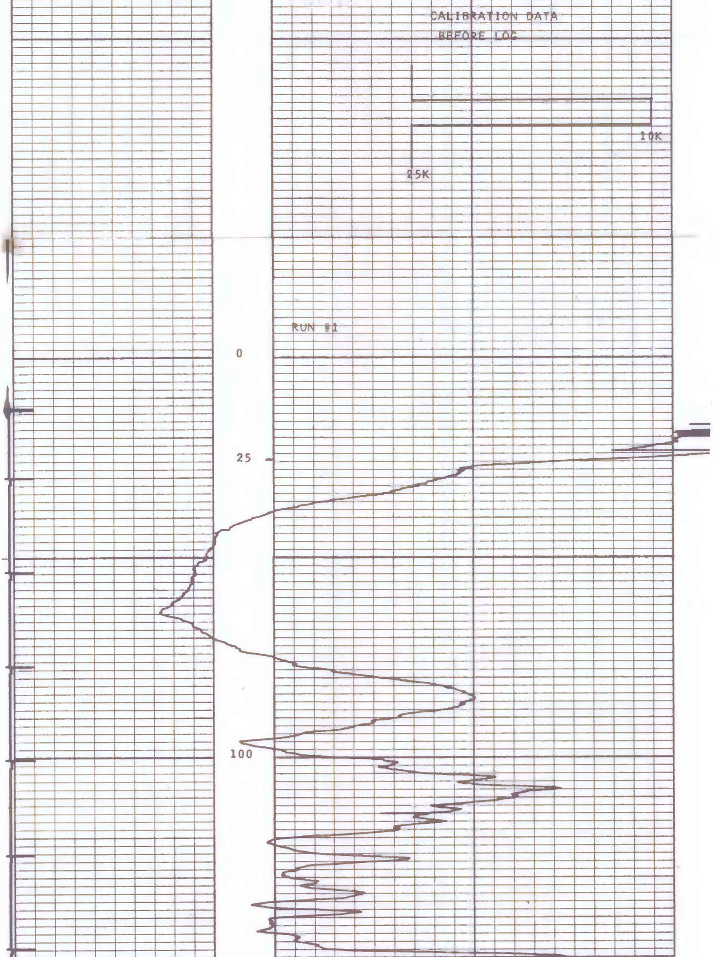


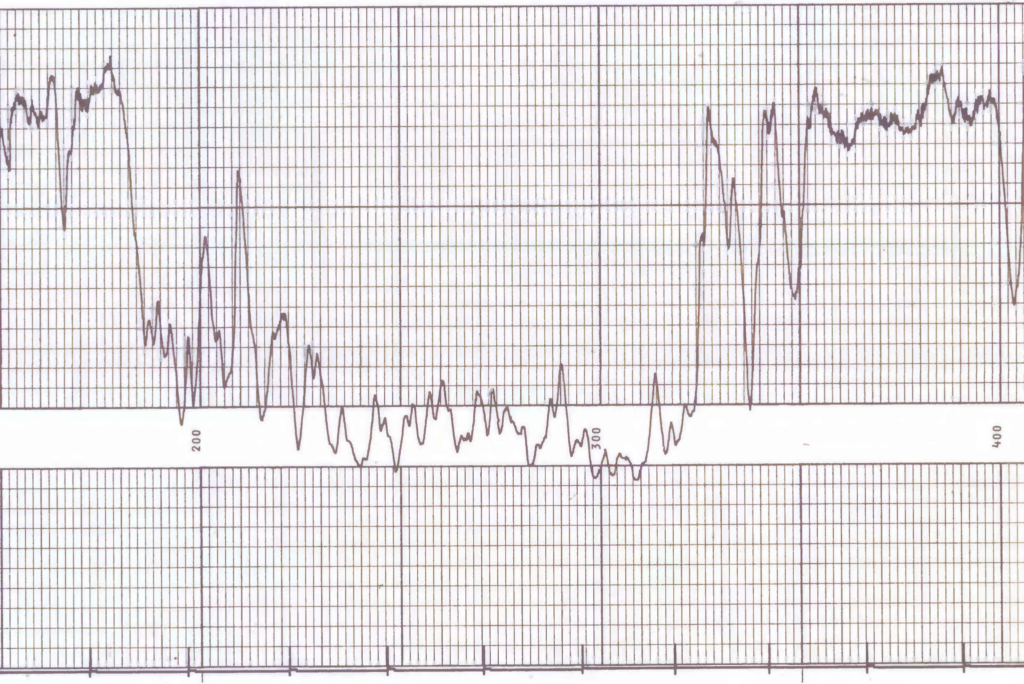


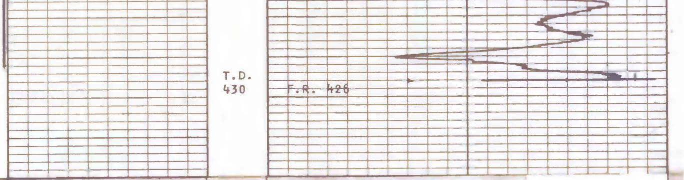












SSC-1080

DEPTH

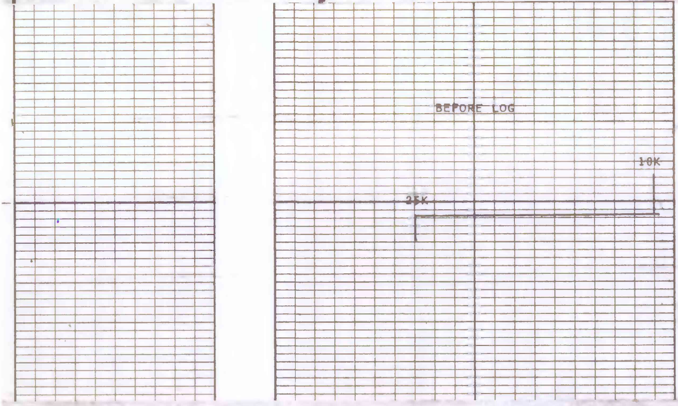
BULK DENSITY
GRAMS/CC

1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7

DIRECT COUNT RATE KCPM

80K 60K 40K 20K 0

CALIBRATION DATA



CALIBRATION DATA

COMPANY	U.S. GEOLOGICAL SURVYE	**DRILLER**	**T.D.**	530'
WELL	B-1	**BIRDWELL**	**T.D.**	530'
FIELD		**BIRDWELL**	**F.R.**	427'
LOCATION		**ELEV.:**	**K.B.**	
COUNTY	JOHNSON		**D.F.**	4600 EST
STATE	WYOMING **DATE** 27 MAY 75		**G.L.**	4600 EST

Birdwell Division
Seismograph Service Corporation
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MIC-705-A