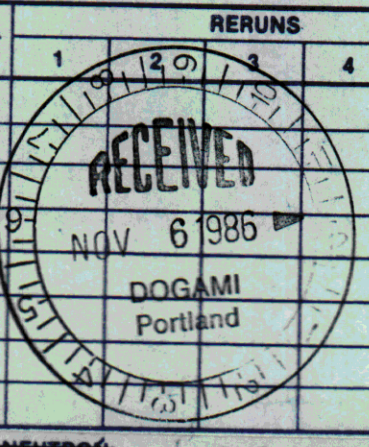




COLORADO WELL LOGGING, INC.

1019 - 8th STREET • GOLDEN, COLORADO 80401 • (303) 279-0171 • TELEX: 45-0286

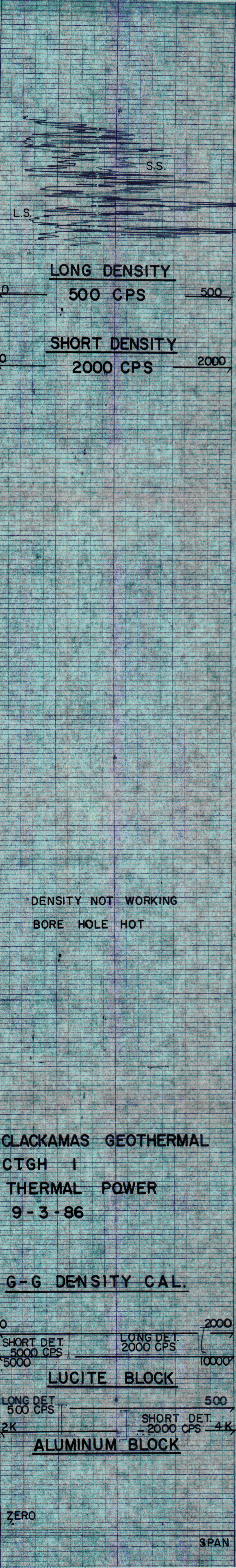
PROJECT: CLACKAMAS GEOTHERMAL		HOLE: CTGH #1		INSTR. MODEL: 111		UNIT NO.: 19	
COMPANY: THERMAL POWER		DATE: 9-3-83		PROBE NO.: XAP		K-FACTOR:	
STATE: OREGON		COUNTY: MARON		SEC: 28		TWP: 8S	
RAN: 8F		DEAD TIME: LESS THAN 1 MICRO SEC		TIME CONSTANT: SEC			
DRILL HOLE DATA: DRILLING CONTRACTOR BOYLES BROTHERS		DEPTH DRILLED 4800 FT		COLLAR ELEV 3840 EST. FT		CASING THICK IN	
DEPTH LOGGED 4795 FT		BIT SIZE NX CORE		IN		DRILL PIPE THICK IN	
DEPTH CASING FT		TIME SINCE CIRCULATION 1 HRS.		OPERATOR: CROWDER		WITNESS: JOE IOVENETTI	
FLUID LEVEL 22 FT		TYPE FLUID BENTONITE GEL		REMARKS DEPTH MEASURE FROM GL		9.1# VIS 42-48 SEC. WITH POLYMER-F7-MUD	
LOGGED: OPEN HOLE THRU PIPE THRU CASING		CORRECTION FACTORS: PIPE CASING WATER		0 TO 504' OF 8" HQ FROM SURF TO 4223' WITH		BREAK AT 830'	
NATURAL GAMMA		INITIAL RUN		RERUNS			
DEPTH		FROM		RESISTANCE		INIT 1 2 3 4 5	
TO		NO.		DEPTH		FROM	
FULL SCALE (CPS)		LOGGING SPEED - FT/MIN		RATIO - OHMS/DIV		DISPLACEMENT OHMS	
CHART RATIO - FT/IN		DIGITAL INTERVAL - FT		TIME CONSTANT - SEC		SPONTANEOUS POTENTIAL	
Y-Y DENSITY: L.S. NEUTRON S.S.		DEPTH		FROM		TO	
FROM 4795 900		4795 900		LOGGING SPEED - FT/MIN		RATIO - MILLIVOLTS/DIV	
TO 4200 775		4200 775		BIAS - MILLIVOLTS		RESISTIVITY	
NO. 610 125		610 125		DEPTH		FROM	
FULL SCALE (CPS) 500 500		2K 2K		TO		LOGGING SPEED - FT/MIN	
DISPLACEMENT - CPS 0 0		2K 2K		BIAS - MILLIVOLTS		RATIO - OHMS/DIV	
CHART RATIO - FT/IN 50 50		20 20		LOGGING SPEED - FT/MIN		RATIO - OHM/M/DIV	
LOGGING SPEED - FT/MIN 20 20		5 5		DIGITAL INTERVAL - FT			



MOUNT SOPRIS INSTRUMENT CO. DELTA, COLORADO, U.S.A. CHART NO. 491 E

COMPANY: THERMAL POWER PROJECT: CLACKAMAS HOLE NO.: CTGH #1 DATE: 9-3-86

750
800
900
4100
4300
4500
4700
4800



CALIPER
15 INCHES

CLACKAMAS GEOTHERMAL
CTGH 1
THERMAL POWER
9-3-86

G-G DENSITY CAL.

SHORT DET. 5000 CPS
LONG DET. 2000 CPS

LUCITE BLOCK

LONG DET. 500 CPS
SHORT DET. 2000 CPS

ALUMINUM BLOCK

45 7 10

ZERO

SPAN