



Caliper Log



FILE NO. _____
 API NO. _____
 COMPANY: OREGON NATURAL GAS CORPORATION
 WELL: IM 32-0-10
 FIELD: WEST Corvallis Gas Field
 COUNTY: COLUMBIA STATE: OREGON
 LOCATION: 2181 1/2 S. W. 77th St.,
 0.1 of THE N.E. CORNER
 Q1: _____ Other Services: NONE

DATE: 01/14/87
 Log Measured from: KS
 Drilling Measured from: KS
 Permanent Datum: CL
 Log Measured from: KS
 Elevation: 503.8'
 KB: 505.3'
 DF: 505.3'
 GL: 505.3'

Run No. 278-37
 Service Order: 27879
 Depth - Driller: 2159'
 Bottom Logged Interval: 2170'
 Top Logged Interval: 2125'
 Casing - Driller: 5' 5" @ 2126'
 Casing - Logger: 2126'
 Bit Size: 15"

Density and Viscosity		cc
pH and Fluid Loss	cc	cc
Source of Sample		
Rim @ Meas. Temp.	@	71
Rim @ Meas. Temp.	@	66
Rim @ Meas. Temp.	@	66
Rim @ Meas. Temp.	@	71
Source of Rim and Rmc		
Rim @ BHT	@	71
Time Since Circ	2 HRS.	71
Max. Rec. Temp. Deg. F.		71
Equip. No. and Location	4406 SAC	
Witnessed By:	H. HENDS	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BEST FIT OF THEIR BEST JUDGMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

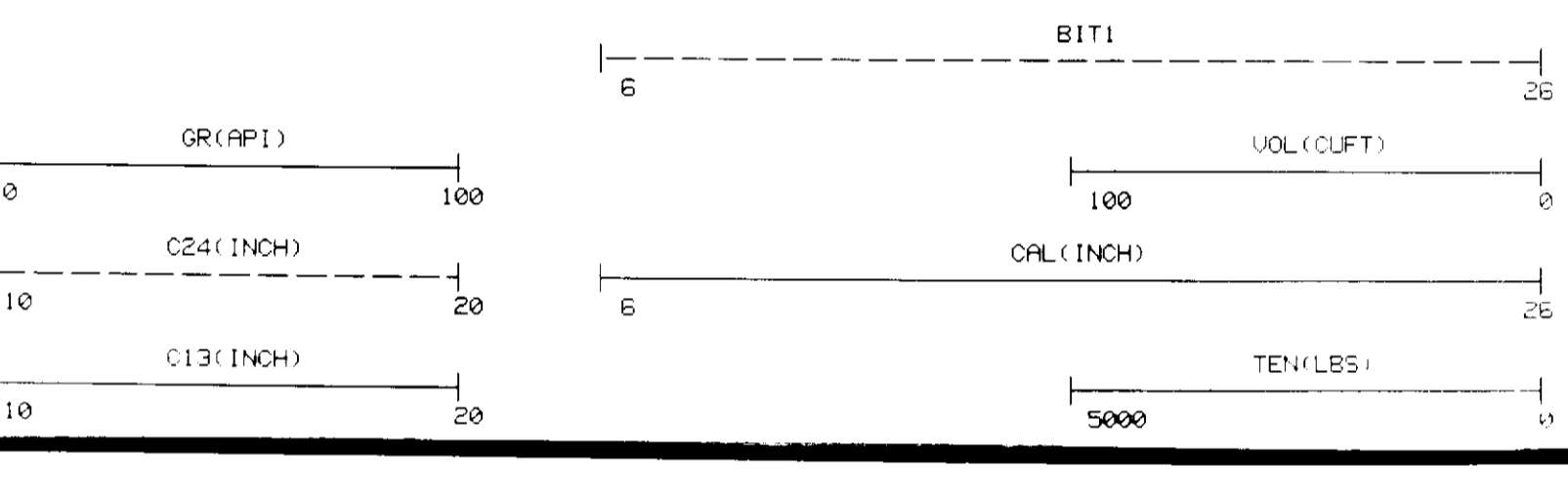
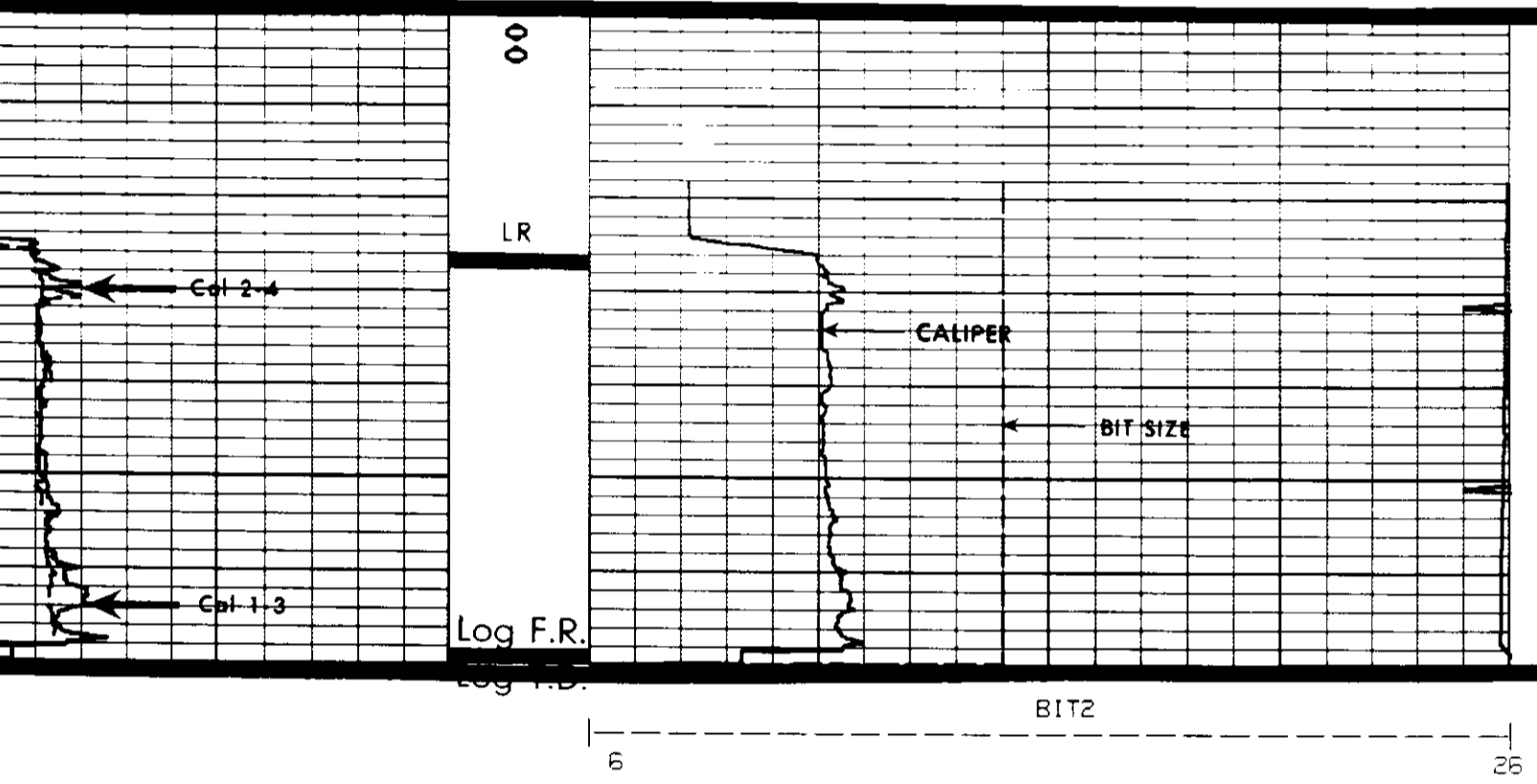
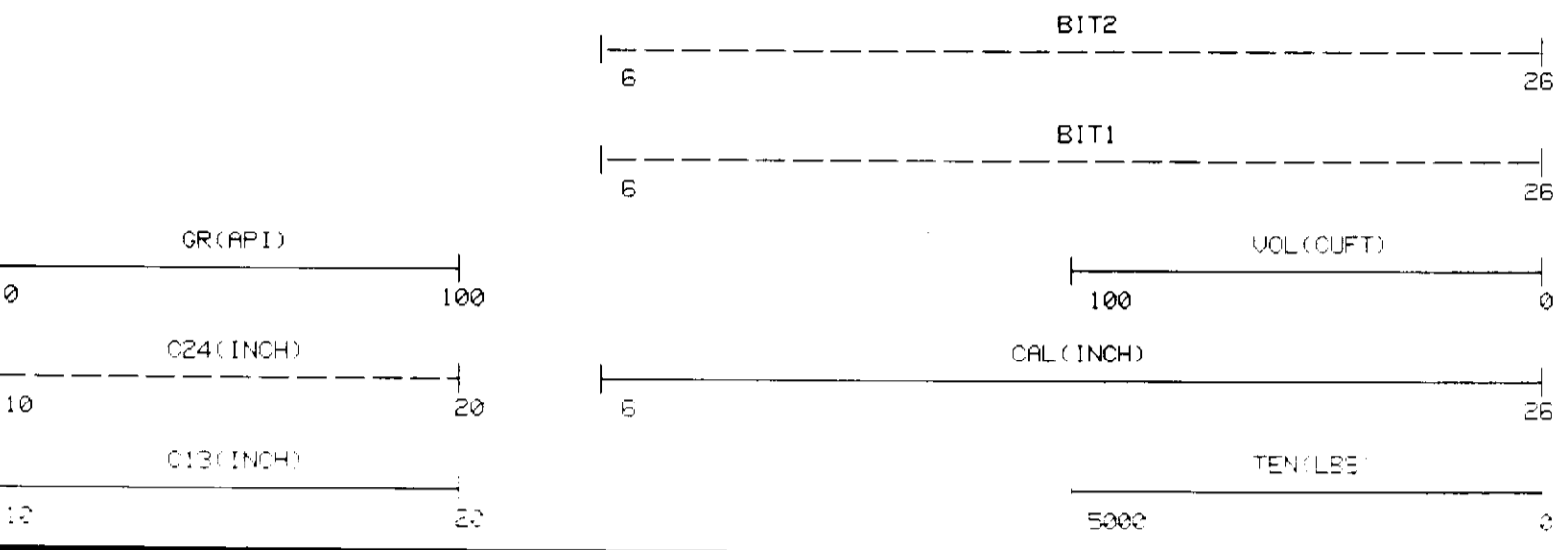
GR(API)		
C24(INCH)		
C13(INCH)		
VOL(CUFT)		
CAL(INCH)		
TEN(LBS)		

REMARKS RUN (1)

EQUIPMENT DATA

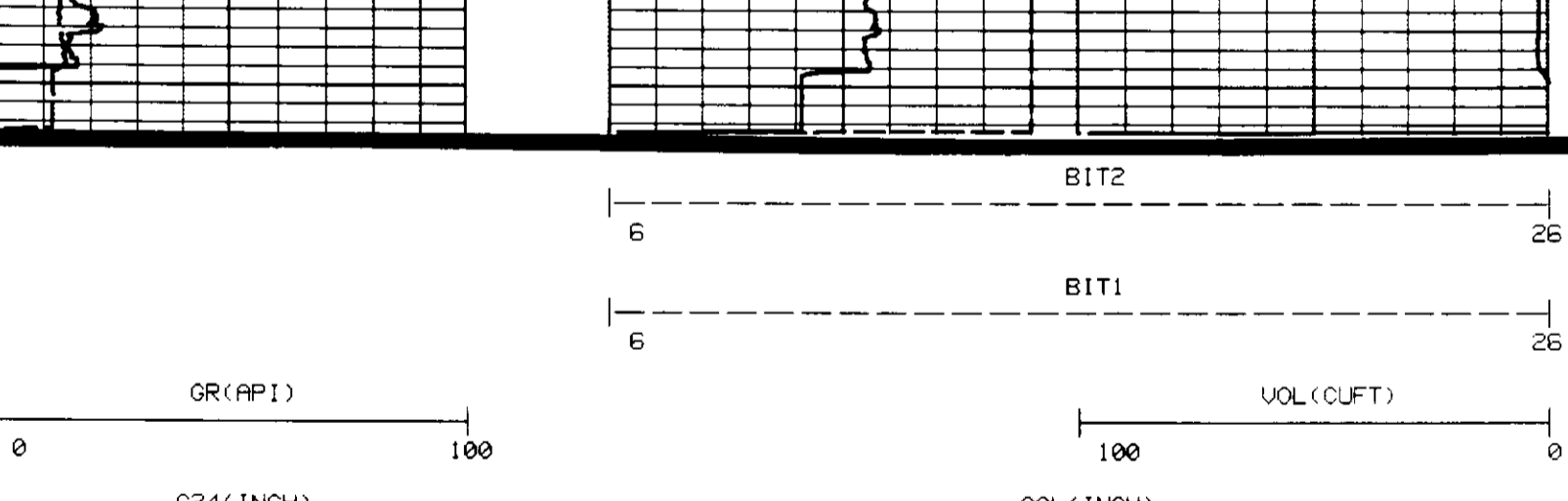
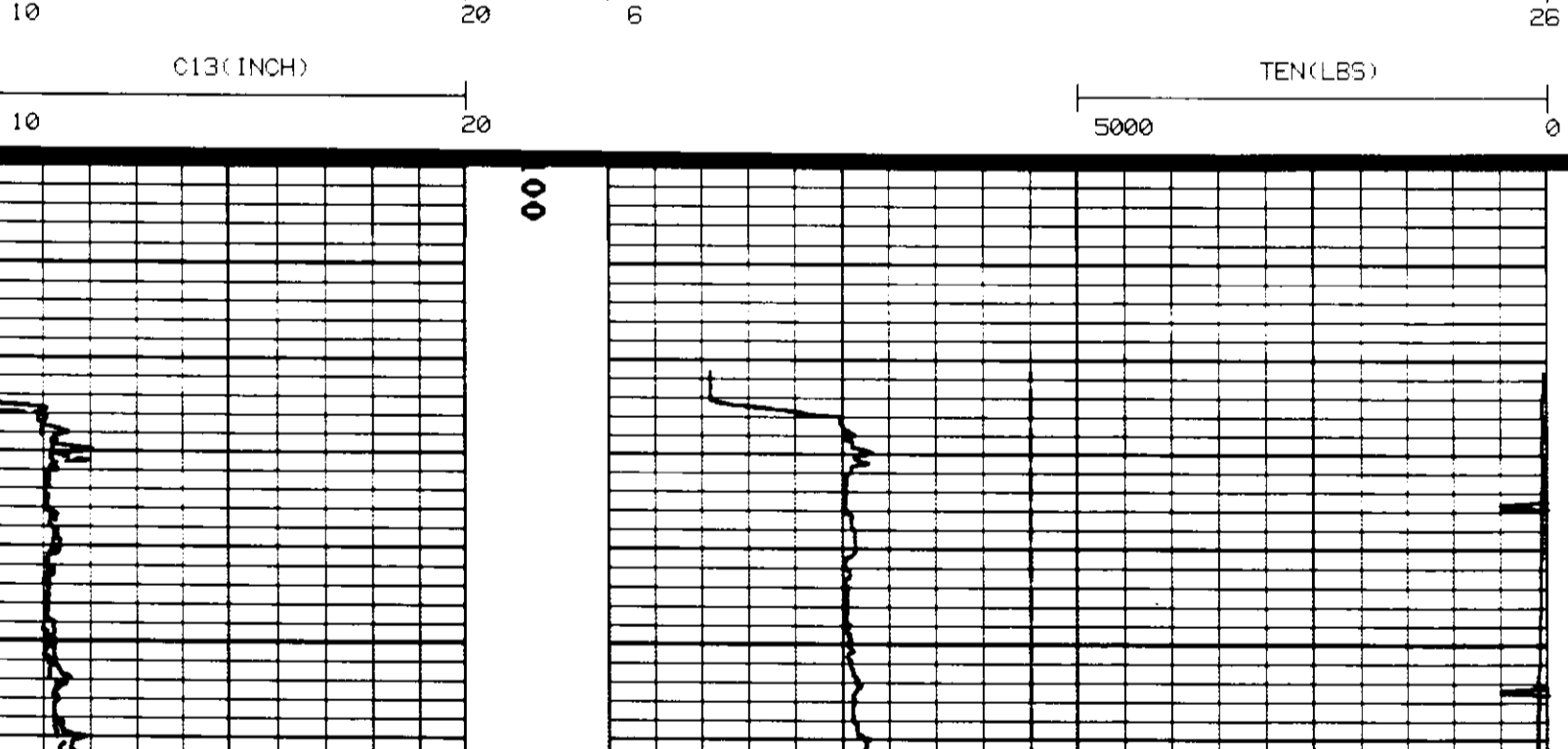
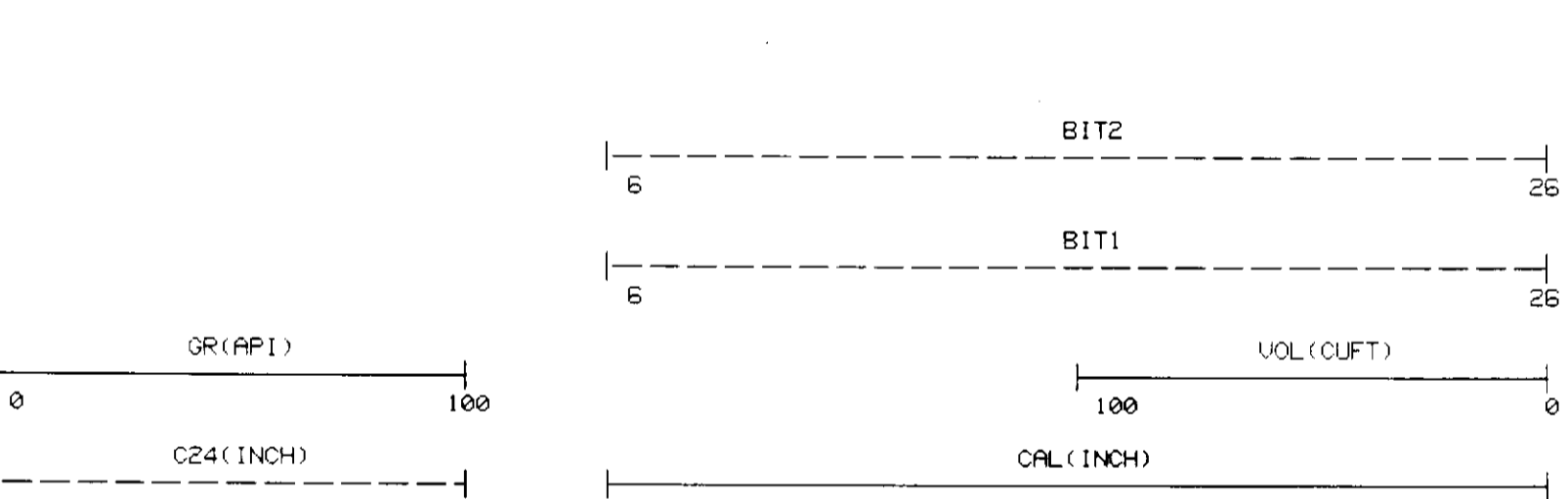
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	4CAL	32419	1905	VARIABLE
1	1	GR			

COMPANY: OREGON NATURAL GAS CORP. RUN: 1
 WELL NAME: IM 32-10 TRIP: 1
 SERVICE: KC202A FILE: 5 DATE: 01/14/87 TIME: 10:02:00
 REVISION: FSYSL REV D007 VER 7 MODE: RECORD



COMPANY: OREGON NATURAL GAS CORP. RUN: 1
 WELL NAME: IM 32-10 TRIP: 1
 SERVICE: KC202A FILE: 4 DATE: 01/14/87 TIME: 09:57:16
 REVISION: FSYSL REV D007 VER 7 MODE: RECORD

REPEAT SECTION



 * CALIBRATION/VERIFICATION SUMMARIES *
 * DATE 01/14/87 TIME 10:04:58 *
 * RUN 1 TRIP 1 *

LOG NAME 4CAL ASSET NO. 32419 UNIT NO. 6406
 CALIBRATION ENTERED ON 01/14/87 AT 09:16:16

CURVE	MILLIVOLTS LOW	MILLIVOLTS HIGH	SCALING FACTORS ADD.	SCALING FACTORS MULT.	ENGINEERING VALUES LOW	ENGINEERING VALUES HIGH	UNITS
DATE 01/14/87	CALIBRATION			TIME 09:16:16			
C13	650.0	1830.2	1.043	0.0186	6.000	15.000	INCH
C24	1023.7	2257.2	-1.549	0.0179	6.000	15.000	INCH
PRIMARY VERIFICATION NOT DONE							
DATE 01/14/87	BEFORE LOG VERIFICATION			TIME 09:40:41			
C13	E	926.0	1.043	0.0186	E	8.104	INCH
C24	E	1305.4	-1.449	0.0179	E	8.121	INCH
DATE 01/14/87	AFTER LOG VERIFICATION			TIME 10:04:36			
C13	E	926.0	1.043	0.0186	E	8.104	INCH
C24	E	1310.0	-1.449	0.0179	E	8.155	INCH

