

4-ARM CALIPER LOG

WESTERN AREA
INTERNATIONAL

ATLAS WIRELINES SERVICES
5" = 100'

ASSET NO. 52959
UNIT NO. 6399

WELL NO. **1W33AC-3**
COMPANY **OREGON NATURAL GAS DEVELOPMENT CORP.**

WELL **1W33AC-3**
FIELD **MS**
COUNTY **DAUMER**

LOGS SECTION **3000**
LOG NO. **12/05/90**

DATE **12/05/90**
TIME **07:39:52**

LOCATION **RECESS**
OTHER SERVICE

ELEVATION **1070.1**
DEPTH **111.3**
ELECTRICITY **NO**
WATER **NO**

LOGGING METHOD **LOG**
DIP **0**
DIRECTION **0**

LOGGING SPEED **2.0**
LOGGING TIME **06:44:39**

LOGGING METHOD **LOG**
DIP **0**
DIRECTION **0**

LOGGING SPEED **2.0**
LOGGING TIME **06:44:39**

IN MAKING INTERPRETATIONS OF LOGS OUR ENGINEERS WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE THE INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT WARRANT, THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, DAMAGE, INJURY, OR EXPENSE WHATSOEVER INCURRED OR SUFFERED BY THE CUSTOMER OR ANY OTHER PARTY AS A RESULT OF OUR SERVICES.

FIELD DATA

LOGGING METHOD	LOG
DIP	0
DIRECTION	0
LOGGING SPEED	2.0
LOGGING TIME	06:44:39
LOGGING METHOD	LOG
DIP	0
DIRECTION	0
LOGGING SPEED	2.0
LOGGING TIME	06:44:39

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	4CAL			
1	1	CR			

REMARKS RUN (1)

MAIN LOG

FILE: 3

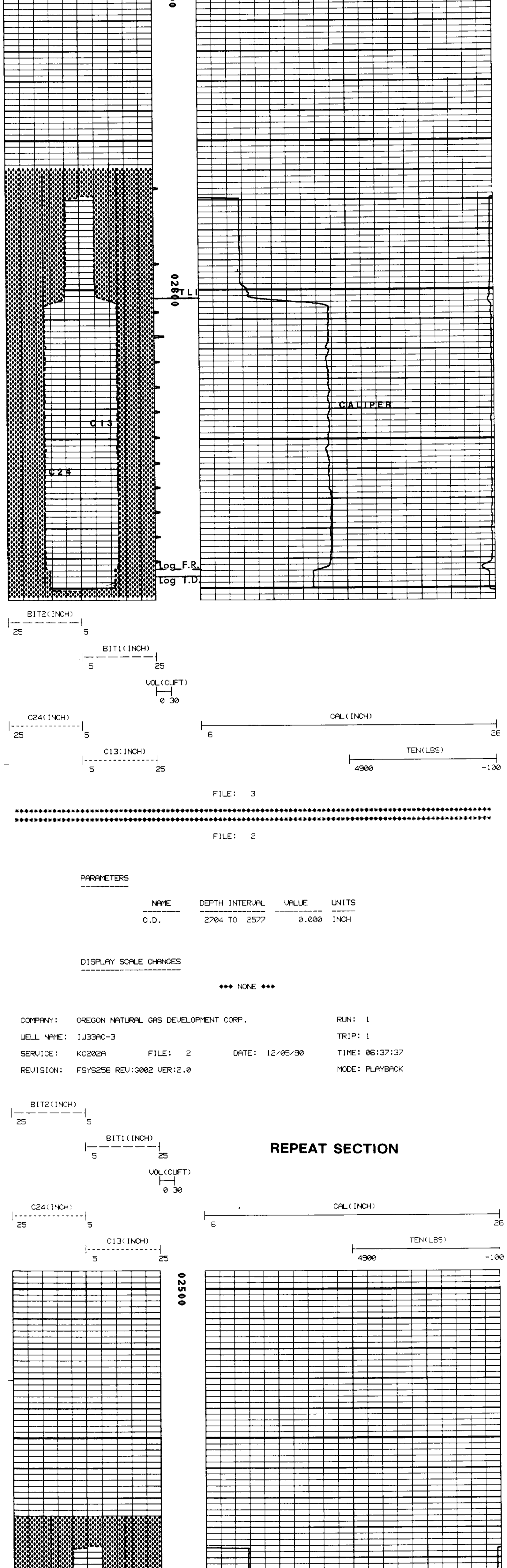
PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
O.D.	2703 TO 2560	0.000	INCH

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 1
WELL NAME: 1W33AC-3 TRIP: 1
SERVICE: KC202A FILE: 3 DATE: 12/05/90 TIME: 06:44:39
REVISION: FSYS256 REV:0002 VER:2.0 MODE: PLAYBACK



FILE: 3

FILE: 2

PARAMETERS

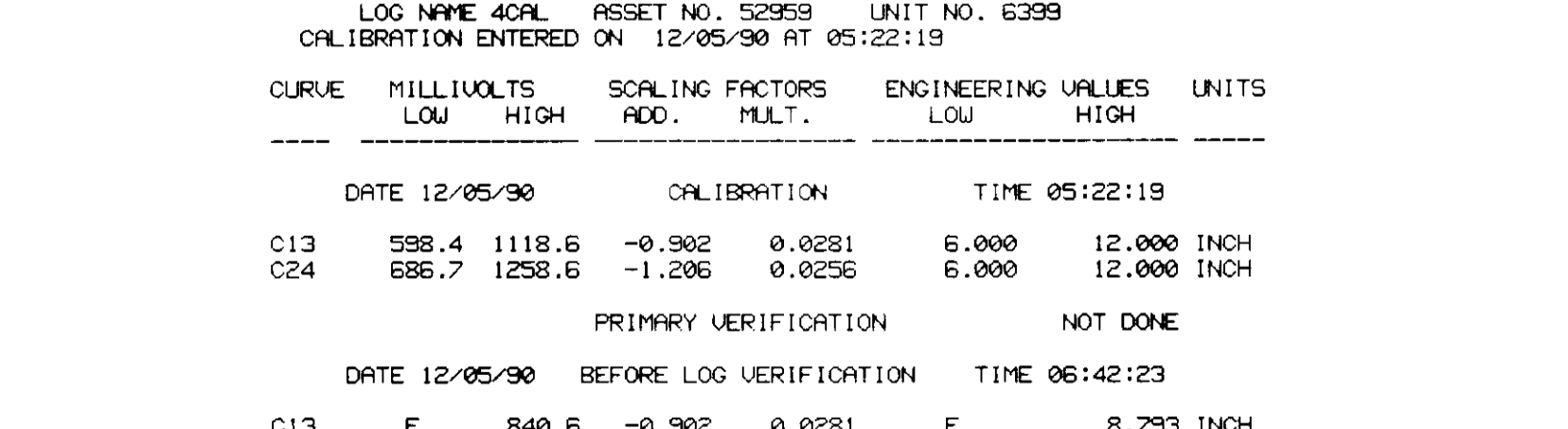
NAME	DEPTH INTERVAL	VALUE	UNITS
O.D.	2704 TO 2577	0.000	INCH

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 1
WELL NAME: 1W33AC-3 TRIP: 1
SERVICE: KC202A FILE: 2 DATE: 12/05/90 TIME: 06:37:37
REVISION: FSYS256 REV:0002 VER:2.0 MODE: PLAYBACK

REPEAT SECTION



FILE: 2

• CALIBRATION/VERIFICATION SUMMARIES •
• DATE 12/05/90 TIME 07:39:52 •
• RUN 1 TRIP 1 •

LOG NAME	ASSET NO.	UNIT NO.	CALIBRATION ENTERED ON	DATE	TIME
4CAL	52959	6399	12/05/90	05:22:19	

CURVE	LOW	HIGH	SCALING FACTOR	ADD. MULT.	ENGINEERING	VALUES	UNITS
C13	588.4	1118.6	-0.902	0.0281	E	6.000	12.000 INCH
C24	686.7	1258.6	-1.206	0.0256	E	6.000	12.000 INCH

DATE	TIME	BEFORE LOG VERIFICATION	AFTER LOG VERIFICATION
12/05/90	06:42:23		
C13	E	840.6	8.793 INCH
C24	E	943.3	8.682 INCH

DATE	TIME	BEFORE LOG VERIFICATION	AFTER LOG VERIFICATION
12/05/90	06:48:39		
C13	E	837.7	8.789 INCH
C24	E	933.7	8.581 INCH