



**ATLAS WIRELINE SERVICES**  
PHOTON LOG  
GRAVEL PACK SURVEY

FILE NO. COMPANY: NORTHWEST NATURAL GAS COMPANY  
WELL NAME: I. N. 136 - 11

FIELD: MIST COUNTY: COLUMBIA STATE: OREGON

LOCATION: 344 28' E931 FROM THE WEST 1/4 CORNER OF: OTHER SERVICES: PRODUCTION PROOFER

SECT 11 TWP 10N R3E35E ELEVATIONS: 897.65'

PERMANENT DATUM: GROUND LEVEL 11.4 FT. ABOVE P.D. OF 896.45'

LOOKING MEASURED FROM: K. B. DRILLING MEASURED FROM: K. B. DATE: 02-02-91

RUN: 2 SERVO ORDER: 56914

DEPTH: 233' TYPE LOGGED INTERVAL: 2327'

TYPE FLUID IN HOLE: 2000' SALINITY PPM CL: 9.1+

LEVEL: 103' F. P.M. REC. TEMP. DEG. F: 103' F. DR. REC. MILE / LOC. / LOG. / TOSSON

NO. BIT FROM TO  
1 13 3/8" 54.5' 532'  
2 8 5/8" 72' 2318'  
3 5 1/2" 7 7/8" 2334'

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BEST FIT OF THEIR BEST JUDGMENT, BUT SOME OF THE INTERPRETATIONS FROM OTHERS OR OTHER REVISIONS WE CANNOT FIND 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 SUFFERED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS RUN ( 2 )  
TAYLOR RIG 4  
BHT 103 F & 103 F

**EQUIPMENT DATA**

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
2	1	PH	24393	1313XA	CENTRALIZED
2	1	CCL	47491	2313XA	CENTRALIZED

5" = 100'

FILE: 2

**CURVE DELAY REPORT**

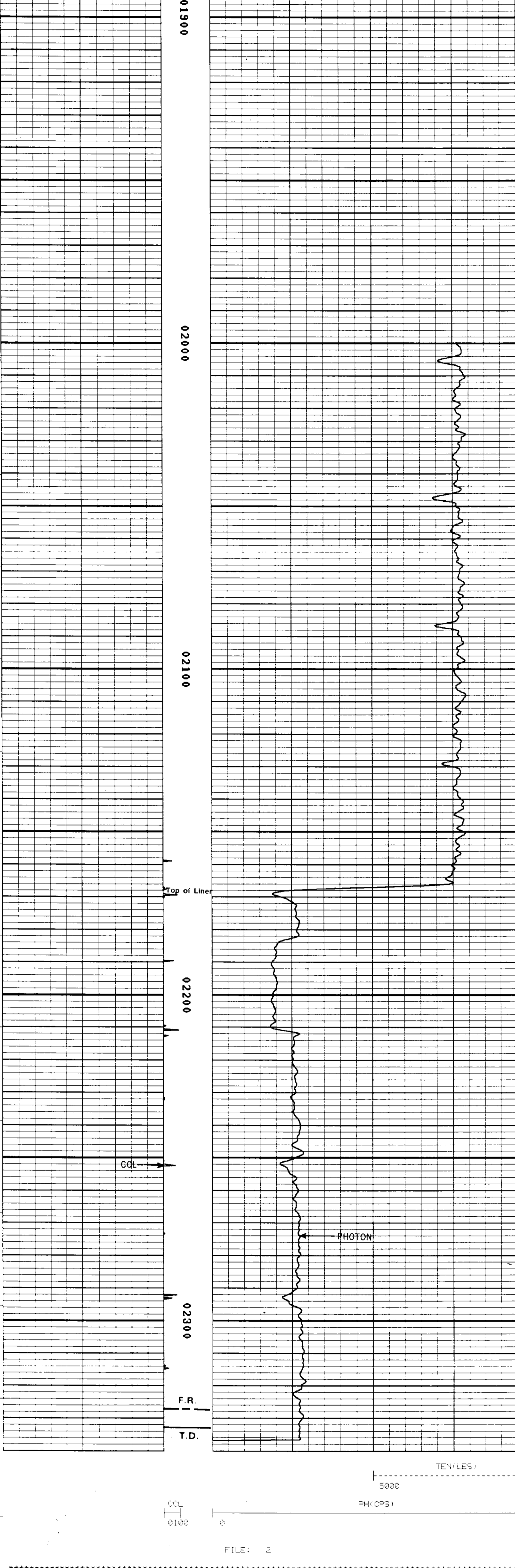
CURVE	PHYS. DELAY	UNITS
PH	0	FT./IN
CCL	4.9	FT./IN
CCL1	4.9	FT./IN

PARAMETERS: \*\*\* NONE \*\*\*

**DISPLAY SCALE CHANGES**

\*\*\* NONE \*\*\*

COMPANY: NORTHWEST NATURAL GAS COMPANY RUN: 2  
WELL NAME: I. N. 136 - 11 TRIP: 1  
SERVO: K0451B FILE: 2 DATE: 10-02-91 TIME: 05:49:31  
REVISION: FSVS256 REV:0002 VER:2.0 MODE: RECORD



**REPEAT SECTION**

FILE: 1

**CURVE DELAY REPORT**

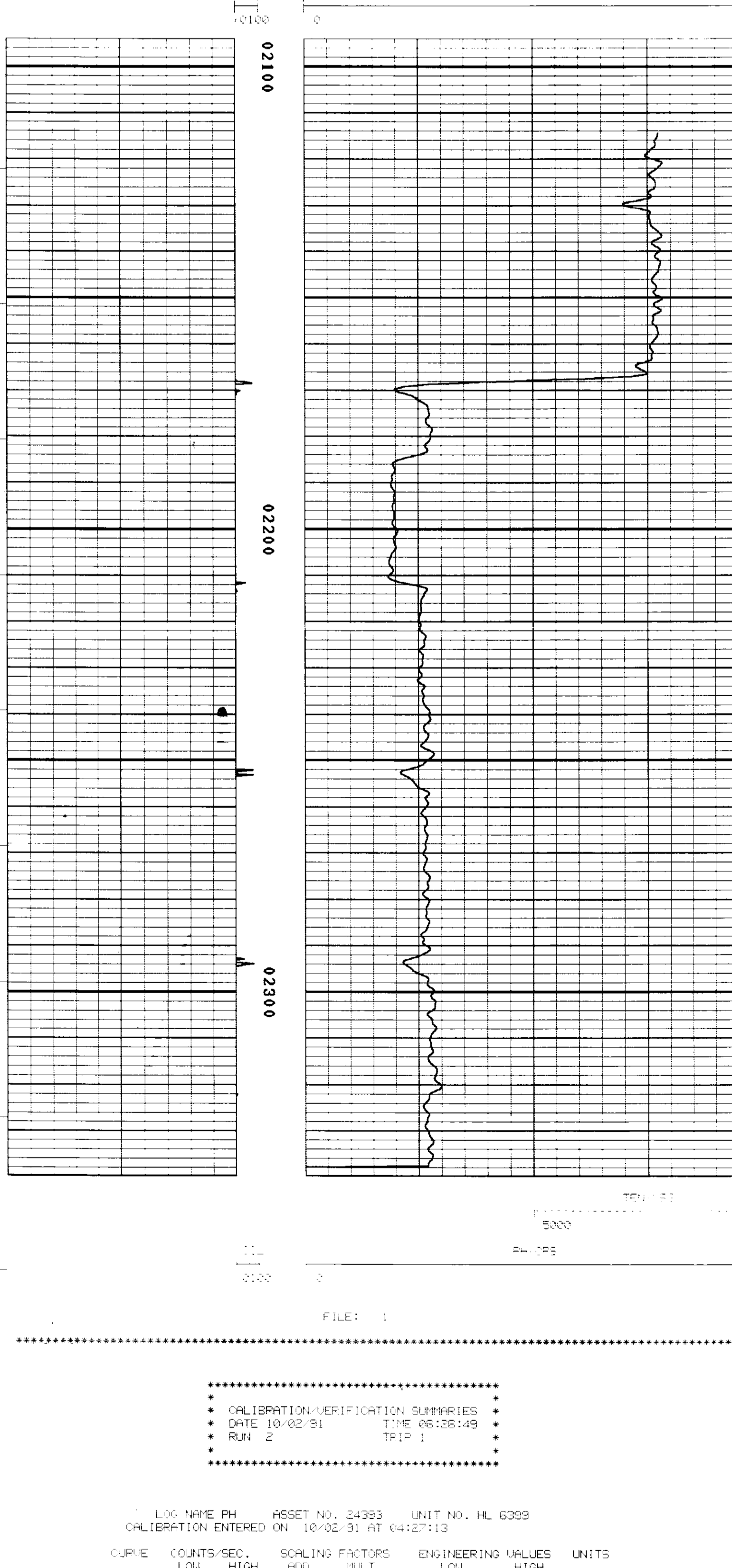
CURVE	PHYS. DELAY	UNITS
PH	0	FT./IN
CCL	4.9	FT./IN
CCL1	4.9	FT./IN

PARAMETERS: \*\*\* NONE \*\*\*

**DISPLAY SCALE CHANGES**

\*\*\* NONE \*\*\*

COMPANY: NORTHWEST NATURAL GAS COMPANY RUN: 2  
WELL NAME: I. N. 136 - 11 TRIP: 1  
SERVO: K0451B FILE: 1 DATE: 10-02-91 TIME: 05:37:41  
REVISION: FSVS256 REV:0002 VER:2.0 MODE: RECORD



- CALIBRATION VERIFICATION SUMMARYS
- DATE 10-02-91 TIME 06:26:49
- RUN 2 TRIP 1

LOG NAME PH ASSET NO. 24393 UNIT NO. HL 6393  
CALIBRATION ENTERED ON 10-02-91 AT 04:27:13

CURVE	COUNTS/SEC.	LOW	HIGH	SCALING FACTOR	MULT.	ENGINEERING VALUES	UNITS
						LOW	HIGH
DATE 09-21-91							
PH	40.3	165.8	0.000	1.5932	0.000	200.000	API
DATE 09-21-91							
PH	41.5	163.7	0.000	1.5932	66.118	260.207	API
DATE 10-02-91							
PH	28.8	157.7	0.000	1.5932	45.937	251.195	API
DATE 10-02-91							
PH	27.0	162.2	0.000	1.5932	60.762	251.264	API