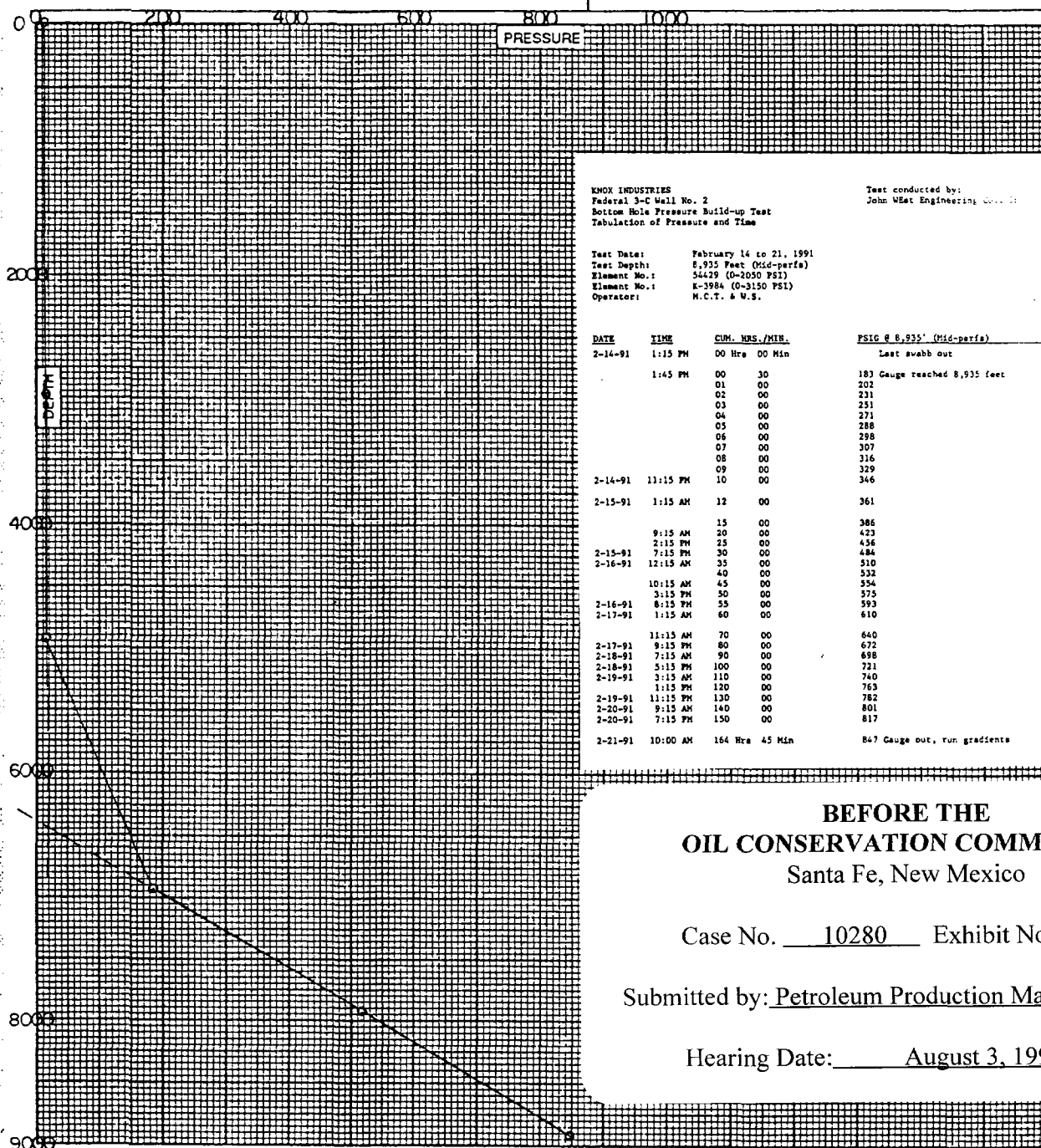


BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR KNOX INDUSTRIES
LEASE Federal 3-C
WELL NO. 2
FIELD _____
DATE 2-21-91 TIME 11:15 A.M.
STATUS Shut-in TEST DEPTH 8,935 Feet
TIME S.I. 166 Hrs LAST TEST DATE _____
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 11 psig BHP CHANGE _____
ELEV. _____ FLUID TOP 6,375'
DATUM _____ WATER TOP _____
TEMP. _____ RUN BY W.S.
CLOCK NO. 24959 GAUGE NO. 19389
ELEMENT NO. K-3984 (0-3150 PSI)

DEPTH	PRESSURE	GRADIENT
000	11	
3000	12	.0003
4935	14	.001
6935	186	.086
7935	519	.333
8935*	849	.330

*Center of perforations



KNOX INDUSTRIES
Federal 3-C Well No. 2
Bottom Hole Pressure Build-up Test
Tabulation of Pressure and Time

Test conducted by:
John West Engineering Co., Inc.

Test Date: February 14 to 21, 1991
Test Depth: 8,935 Feet (Mid-perfs)
Element No.: 54429 (0-2050 PSI)
Element No.: K-3984 (0-3150 PSI)
Operator: W.C.T. & W.S.

DATE	TIME	CUM. HRS./MIN.	PSIG @ 8,935' (Mid-perfs)
2-14-91	1:15 PM	00 Hrs 00 Min	Last swabb out
	1:45 PM	00 30	183 Gauge reached 8,935 feet
		01 00	202
		02 00	231
		03 00	251
		04 00	271
		05 00	288
		06 00	298
		07 00	307
		08 00	316
		09 00	329
2-14-91	11:15 PM	10 00	346
2-15-91	1:15 AM	12 00	361
		15 00	386
	9:15 AM	20 00	423
	2:15 PM	25 00	456
2-15-91	7:15 PM	30 00	484
2-16-91	12:15 AM	35 00	510
		40 00	532
	10:15 AM	45 00	554
	3:15 PM	50 00	575
2-16-91	8:15 PM	55 00	593
2-17-91	1:15 AM	60 00	610
		70 00	640
2-17-91	9:15 PM	80 00	672
2-18-91	7:15 AM	90 00	698
2-18-91	5:15 PM	100 00	721
2-19-91	3:15 AM	110 00	740
	1:15 PM	120 00	763
2-19-91	11:15 PM	130 00	782
2-20-91	9:15 AM	140 00	801
2-20-91	7:15 PM	150 00	817
2-21-91	10:00 AM	164 Hrs 45 Min	847 Gauge out, run gradients

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

Case No. 10280 Exhibit No. 15

Submitted by: Petroleum Production Management Inc.

Hearing Date: August 3, 1995

TEST DATE: FEBRUARY 14 TO 21, 1991

TEST DEPTH: 8,935 FEET

ELEMENT NO.: 54429

RANGE: 0-2050 PSI

CLOCK NO.: 20529

RANGE: 0-180 HOUR

ELEMENT NO.: K-3984

RANGE: 0-3150 PSI

CLOCK NO.: H-16219

RANGE: 0-180 HOUR

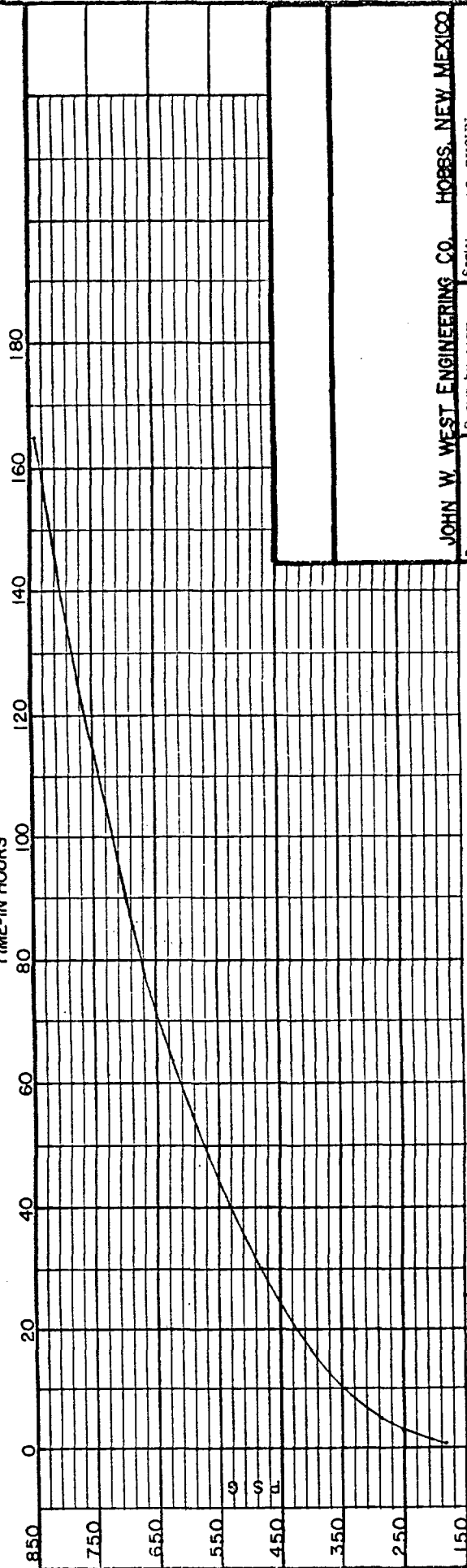
NOTE: BOTTOM HOLE PRESSURE GAUGES WERE RUN IN TANDEM FOR THIS TEST.
THE PRESSURE ELEMENTS CHECKED WITHIN THE 1/10 OF 1% accuracy
specified by the manufacturer. See tabulation of Pressure
and time on attached sheet.

KNOX INDUSTRIES

Federal 3-C Well No. 2

Bottom Hole Pressure Build-up curve

TIME-IN HOURS



JOHN W. WEST ENGINEERING CO. HOBBS, NEW MEXICO
Date: 2-22-91 Drawn by: NCT Scale: AS SHOWN

FEB 25 1991



OTIS ENGINEERING CORPORATION
P.O. BOX 34383
DALLAS, TEXAS 75234

PRESSURE SURVEY

DEC-1980

DATE RUN

6-23-94

COMPANY

PPMI

FIELD

Crossroads

WELL NUMBER

1

LEASE

Star

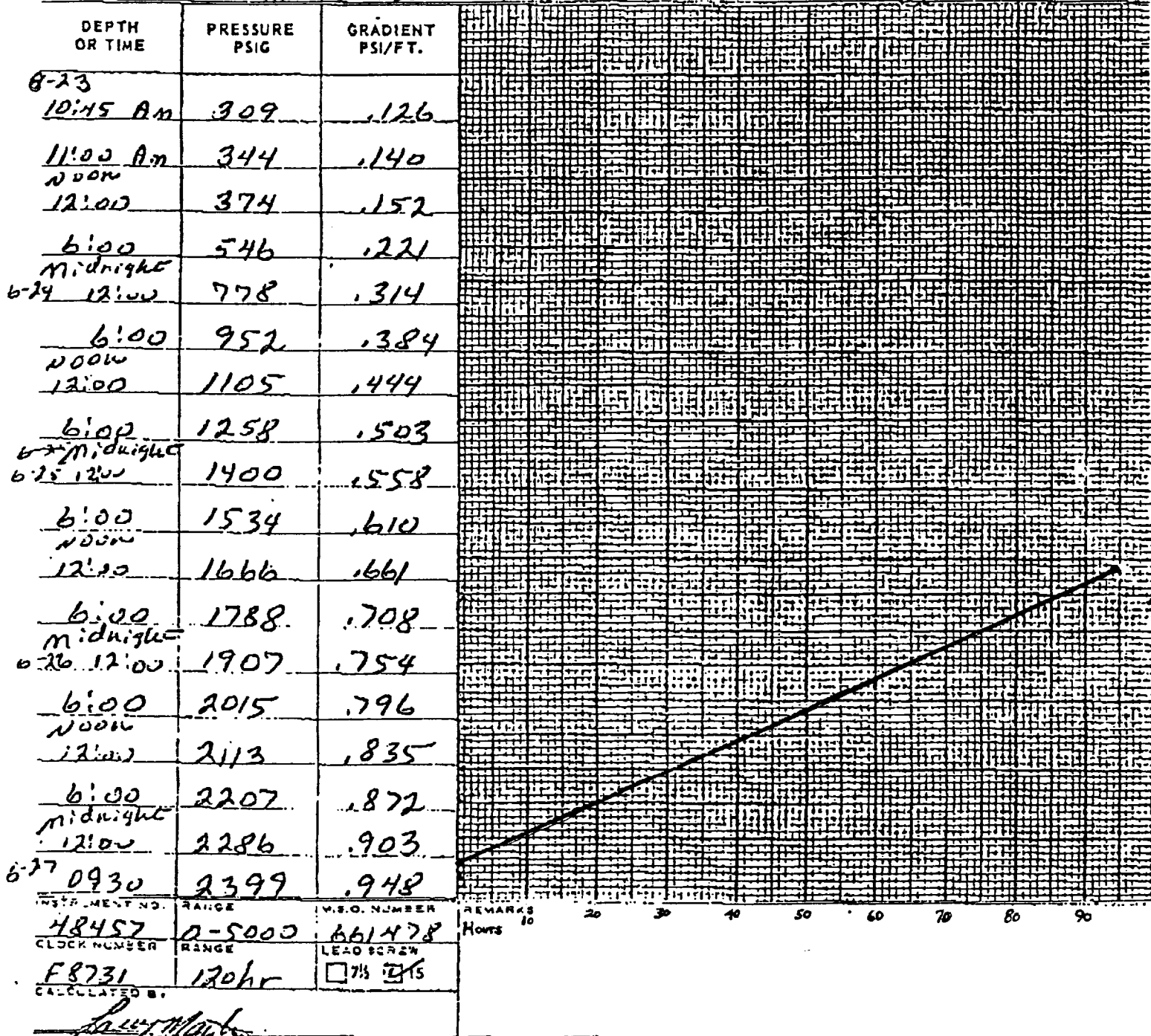
COUNTY OR PARISH

Lea

STATE

N.M.

ELEVATION	PERFORATION	DATUM	OIL LEVEL
WATER LEVEL	☒ SHUT-IN ☐ FLOWING	HOURS	DEPTH REACHED
SURFACE PRESSURE	MAXIMUM PRESSURE	SURFACE TEMPERATURE	MAXIMUM TEMPERATURE
309	2399	100	8820
TUBING	TUBING DEPTH	PACKER DEPTH	SLANT HOLE
278	8820	8820	☐ YES ☒ NO



INSTRUMENT NO.	RANGE	V.S.O. NUMBER
48457	0-5000	661478
CLOCK NUMBER	RANGE	LEAD SCREW
F8731	120hr	☐ 7/8 ☒ 15

CALCULATED BY: *Ray Monte*