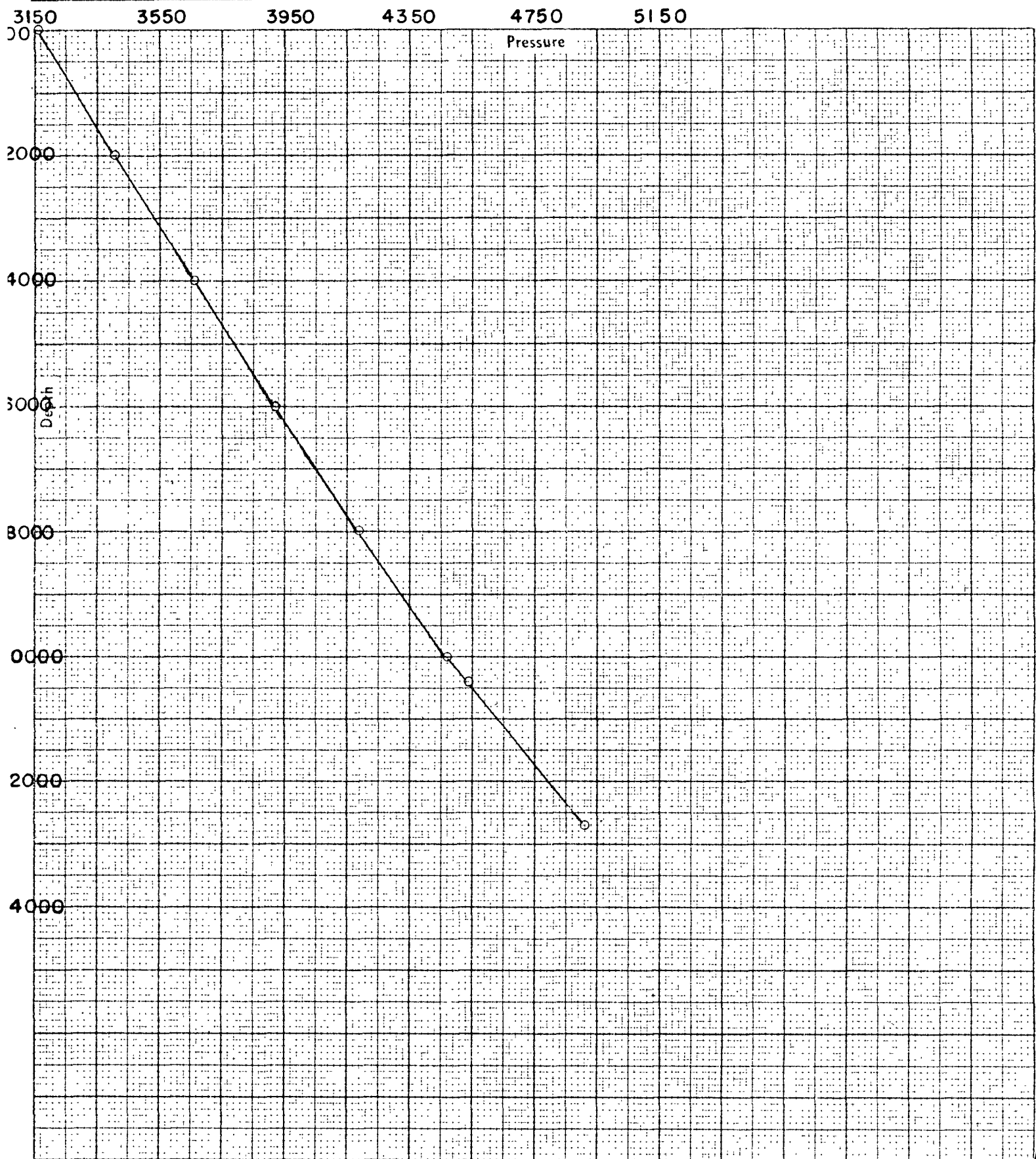


BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR SANTIAGO OIL & GAS INC.
LEASE N.M. STATE
WELL NO. 1-30
FIELD UNDESIGNATED (DEVONIAN)
DATE 2-16-59 TIME 2:30 P.M. MST
STATUS SHUT IN TEST DEPTH 10437
TIME S.I. 16 1/2 HRS. LAST TEST DATE INITIAL
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 3153 BHP CHANGE _____
ELEV. 4203 FLUID TOP _____
DATUM -8650 WATER TOP _____
TEMP 174°F RUN BY M.C.T.
CLOCK NO. 5255 GAUGE NO. 12434
ELEMENT NO. 12421

DEPTH	PRESSURE	GRADIENT
000	3153	
2000	3399	.1230
4000	3653	.1270
6000	3916	.1315
8000	4188	.1360
10000	4465	.1385
10437	4533	.1556
12853 *	4909 *	.1556

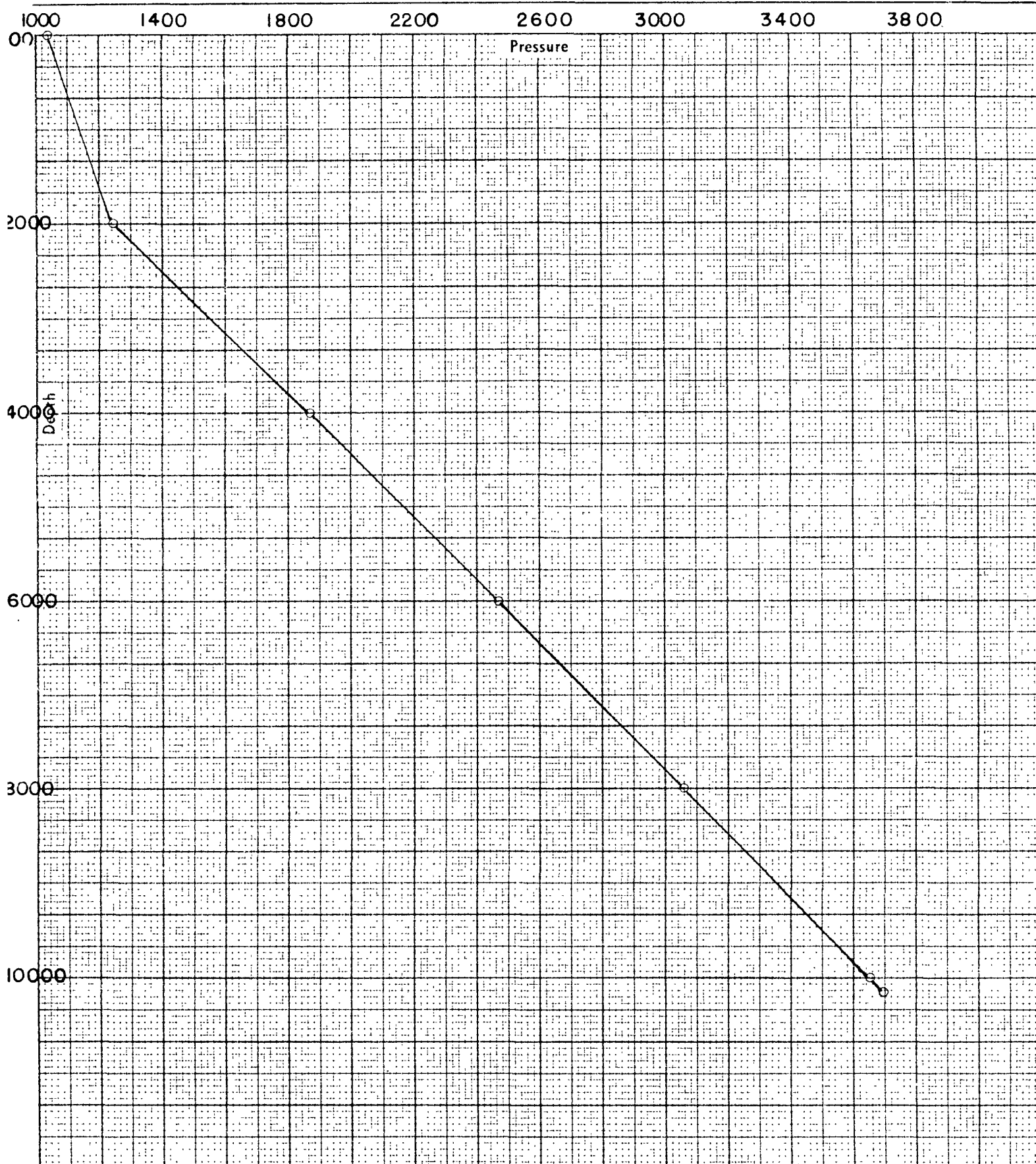
* CALCULATED TO DATUM



BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR SANTIAGO OIL & GAS INC
LEASE N.M. STATE
WELL NO. 1-30
FIELD UNDESIGNATED (PENNSYLVANIAN)
DATE 2-16-59 TIME 12:30 PM MST
STATUS SHUT IN TEST DEPTH 10,143
TIME S.I. 14 1/2 HRS LAST TEST DATE INITIAL TEST
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 10.37 BHP CHANGE _____
ELEV. 4203 FLUID TOP 2000'
DATUM -5940 WATER TOP _____
TEMP 174° F. RUN BY M. T.
CLOCK NO. 5255 GAUGE NO. 12434
ELEMENT NO. 13421

DEPTH	PRESSURE	GRADIENT
000	1038	
2000	1239	.1005
4000	1860	.3105
6000	2460	.3000
8000	3054	.2970
10,000	3646	.2960
10,143	3690	.3077



PRESSURE IN POUNDS PER SQ. INCH

3200
2800
2400
2000
1600
1200
800
400
0

0 2 4 6 8 10 12
3:30 PM 5:30 PM 7:30 PM 9:30 PM 11:30 PM 1:30 AM 3:30 AM

FEB. 16

LEGEND

DEVONIAN
PENNSYLVANIAN

SCALE

VERT. 1" = 400 LB. PRESSURE
HORZ. 1" = 2 HOURS

DATE	HOUR	
2-16-59	4:00 PM	2
2-17-59	4:00 PM	
2-18-59	5:00 AM	

JOHN W. WEST ENGINEERING CO.
HOBBS, NEW MEXICO

DEV. PAY OPENED
5:00 PM 2-17-59

PENN. PAY OPENED
7:00 AM 2-17-59

PENN PAY SHUT IN
11:00 AM 2-17-59

FEB. 17
TIME IN HOURS

RECORDER	DEAD WT. TESTER	2 PIN RECORDER	DEAD WT. TESTER
DEV.	DEV.	PENN.	PENN.
300	3325	1100	1112
290	3316	1050	1064
300	3332	1100	1115

DEV. PAY SHUT IN
9:00 PM 2-17-59

30 32 34 36 38
9:30 PM 11:30 PM 1:30 AM 3:30 AM 5:00 AM
FEB. 18

PACKER LEAKAGE TEST

SANTIAGO OIL & GAS CO.
STATE 1-30

LOWER PAY - DEV. UPPER PAY - PENN.

PENN. TUBING SET AT 10,157
PACKER SET AT 10,190
DEV. TUBING SET AT 12,869

FEB. 16 TO FEB. 18, 1959